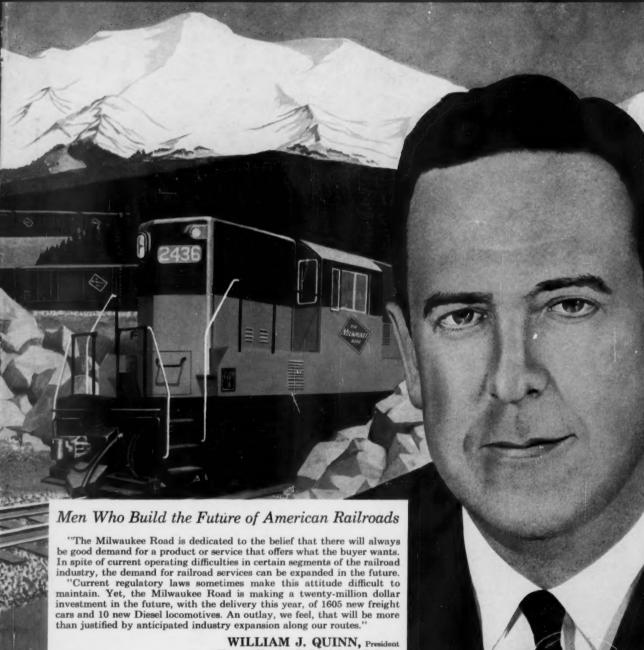
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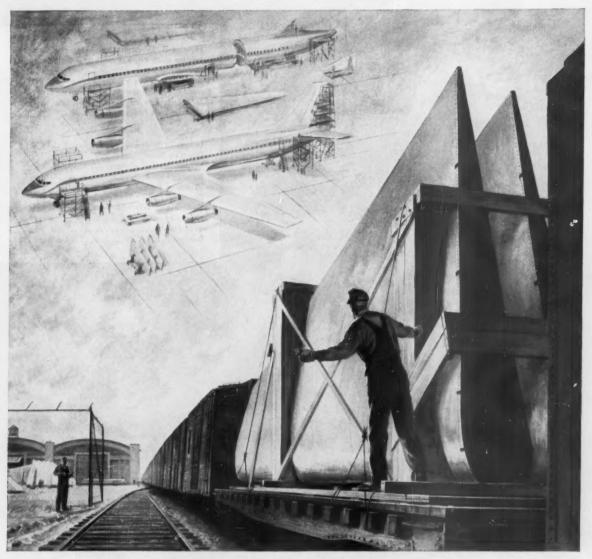
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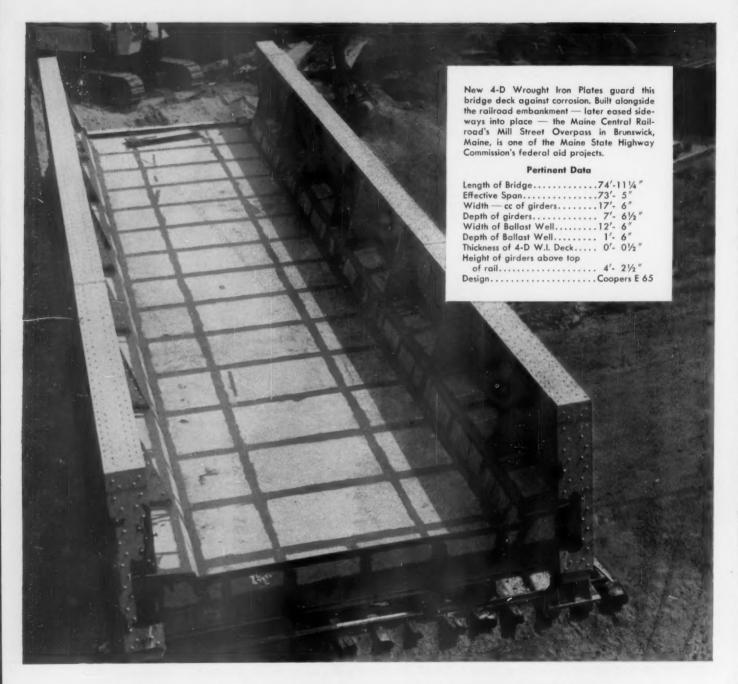
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Association of American Railroads, Washington, D. C



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Bankers back passenger subsidies.....p. 9

The people who ride passenger trains will have to be subsidized if the service is to continue, says the Railroad Securities Committee of the Investment Bankers Association, Outside of the passenger field, the committee views the railroads' future with optimism, predicts a continuing railroad recovery.

Big power changes on the wayp.14

How the U.S. meets its increasing power requirements in the next quarter-century is bound to change long-existing transportation patterns. Railroads must anticipate the changes and take steps to meet them. What railroads can do to cope with the anticipated shifts in power requirements is suggested by Dr. Robert H. Smith, a railroad economist specializing in transport and energy research.

How NYC film helps tell the railroad story......p.18

The public reaction to the film, which was shown in New York's Grand Central Terminal, amazed NYC officers. The reaction proves the public is interested in railroads. Maybe the idea is something other railroads could use to help win the always crucial battle for public opinion.

'Painless' wage hike formula?p.28

Canada's Transport Commissioners apply a "look ahead" theory in deciding that anticipated labor costs can be a legitimate factor in setting freight rates.

One car for commuters and cargo?p.38

That's Northwestern University Professor Berge's solution to the thorny problem of commuter car utilization. He proposes hybrid cars with collapsible seats and removable cargo fasteners. They would carry commuters during rush hours, and merchandise, mail and express during off-peak daylight hours and at night.

The Action Page — What rates for competition?.....p.44

Few businesses experimenting with new prices expect to "get their bait back" the first day the prices go into effect. Any industry that wants to progress must take reasonable risks. If railroads can't hazard anything in making business-building rates, they're going to have a tough time competing.

Short and Significant

October's net income of Class I railroads . . .

is estimated at \$97,000,000—up \$16,000,000 from October 1957's \$81,000,000. Net railway operating incomes for the months were THE CHAMP FOR '59





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As its record on dozens of leading railroads clearly indicates, the JACKSON TRACK MAINTAINER has had no close rival in its dual function of quality production tamping and maintaining track of finest characteristics under all conditions. Now, with much more powerful tamping motors, more speed, a simplified power plant of more than ample capacity and other refinements, it increases that wide margin of superiority which lead to its adoption by the great majority of American railway systems.

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Current Statistics

Operating revenues, nine mont	ths
1958	
1957 7	
Operating expenses, nine mon	
1958	
1957	
Taxes, nine months	,,,
1958	686.238.403
1957	828,306,291
Net railway operating income,	
1958	487,759,288
1957	699,669,837
Net income estimated eight ma	
1958	354,000,000
1957	540,000,000
Average price 20 railroad stock	ks
Dec. 2, 1958	102.86
Dec. 3, 1957	66.59
Carloadings revenue freight	
Forty-seven weeks, 1958	27,481,115
Forty-seven weeks, 1957	32,725,538
Average daily freight car surpl	us
Wk. ended Nov. 29, 1958	24,982
Wk. ended Nov. 30, 1957	28,503
Average daily freight car short	age
Wk. ended Nov. 29, 1958	620
Wk. ended Nov. 30, 1957	139
Freight cars on order	
November 1, 1958	23,670
November 1, 1957	65,718
Freight cars delivered	
Ten months, 1958	36,255
Ten months, 1957	84,639

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\$114,687,960 and \$99,735,398, respectively. For this year's first 10 months, the estimated net income was \$450,000,000 and the net railway operating income was \$602,964,606. They compared, in turn, with 1957 figures of \$620,000,000 and \$799,405,232. Twenty Class I roads failed to earn their fixed charges in this year's first ten months. Rate of return for the 12 months ended with October averaged 2.63 per cent, compared with 3.55 per cent in the previous 12 months.

Guaranteed loan of \$10,500,000 . . .

is sought by the Boston & Maine. Its application, under provisions of the 1958 Transportation Act, has been filed with the ICC. Proceeds would reimburse its treasury for capital expenditures made between Jan. 1, 1957, and Sept. 30, 1958.

End all transport subsidies . . .

because "there is no longer any need or justification for any of our major carriers failing to pay its own way all the way." This call came last week from AAR President Daniel P. Loomis, who urged a close look at government transportation promotion in view of the projected federal budget deficit of \$12 billion this fiscal year. America today has "a magnificent transportation team, whose every member has long since grown to maturity," the AAR president told the Birmingham, Ala., Traffic Club. (See "Watching Washington," p. 10)

A substantial hike in airmail subsidies . . .

is predicted by the Civil Aeronautics Board, CAB estimates that airmail subsidies in the next fiscal year will amount to \$61,786,000 -an increase of \$10,455,000 over this year. In addition, the airlines will get \$77,806,000 in the fiscal year beginning July 1, 1959, for the actual costs of carrying the mail.

A way out of the dilemma . . .

created by Canada's Crow's Nest Pass grain rates has been suggested by the Canadian Industrial Traffic League in a Nov. 26 letter to the Minister of Transport. The special rates were fixed by Parliament in 1897; haven't been changed since; account today for 32% of all Canadian rail traffic, only 11% of revenues. Result is to "burden . . . general users of carrier services." Answer, says the CITL, is to have the cost of special treatment borne by the country as a whole by paying to the railroads out of the national treasury "the difference between statutory rates and normal reasonable rates."

The business upturn looks real . . .

in the Ohio Valley Transportation Advisory Board's area. For the first time in more than a year, the Board is forecasting increased carloadings—up 5.3 per cent in the first quarter 1959 compared to the same period in '58. Most significant increase predicted: a 5.8 per cent gain in coal-coke loadings.

JOB: Move 1½ million cu. yd. for the Northern Pacific WHEELED EQUIPMENT: 3 DW21s

RESULT: "We're on schedule because the DW21s have plenty of power and traction. They maneuver better than anything their size." Hugh G. King, President, Bud King Construction Co., Missoula, Montana



Big, fast-moving Cat DW21 wheel Tractors look their best on the tough jobs. This is one. Bud King Construction is moving $1\frac{1}{2}$ million cu. yd. to relocate 19.5 miles of Northern Pacific line in Montana. When the job started, equipment was half under mud. Excavation included everything from rock to clay.

"I like the traction and flotation of the DW21s on this soft ground," says Mr. King. "We had them on clay slopes where any other machine would have either bogged down or been too awkward to handle."

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Bankers Back Passenger Subsidies

Investment Bankers Association committee says travelers using rails will have to be subsidized if service is to continue. Wall Streeters "optimistic" for continuing railroad recovery, cite gains in rail securities.

► The Story at a Glance: The Railroad Securities Committee of the Investment Bankers Association of America last week endorsed subsidies for "the traveling public" using railroads.

In a report submitted at the IBA's 47th annual convention in Miami Beach, the committee also:

- Reported a strong recovery of railroad stocks in Wall Street.
- Predicted that the current traffic upswing "will continue well into 1959."
- Urged the Interstate Commerce Commission to be "realistic" in considering competitive rate adjustments requested by railroads.
- Praised the railroads for their efforts to eliminate "economic waste"—noting, with approval, the increasing merger activity in the industry.

In its endorsement of railroad passenger subsidies, the IBA's Railroad Securities Committee made it clear that it was advocating the subsidization of the travelers themselves—not the railroads that provide passenger service at a loss.

"If the public interest requires the railroads to provide passenger service, and your committee believes it does, then the traveling public using this mode of transportation must be subsidized," said the

The committee said it would not "suggest the form and extent of such a subsidy," but added:

"It is noteworthy that the New Haven Railroad last summer entered into an arrangement with various municipalities in its service area in the vicinity of Boston whereby it will receive over a period of a year from the municipalities a sum of \$900,000 for the purpose of maintaining service. Similarly, the Pennsylvania and Reading Railroads more recently agreed with the City of Philadelphia to provide certain passenger train service under conditions that involved the city paying to these companies, over a period of a year, sums totaling \$165,000."

The committee, which is composed of leading security analysts, took a solidly optimistic view of the railroads' future.

"Railroad stock prices have vigorously recovered from their lows reached last January," the committee reported, "and the averages are now up more than 50 per cent. Many railroad common stocks are close to or recently surpassed the highest prices at which they sold in the 1956-57 period. Does this enthusiasm for rail equities portend a new horizon for the rail industry? There is much reason to be optimistic, based on what has already transpired this year, as well as what is in the offing, wholly apart from the excellent traffic outlook both near term and long term."

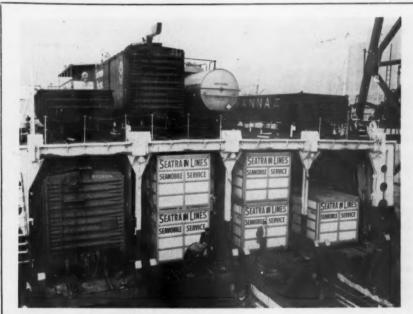
The committee noted that the railroad traffic decline "was arrested towards the end of April 1958."

"Although not quite back to the 1957 level, carloadings have, for the last several months, shown a tendency to improve

and there is every indication that the business recovery now taking place will continue well into 1959."

The committee reported that the market for railroad mortgage bonds is still poor. It pointed to a "paradoxical situation" which it said has resulted from the industry's continuing need for new capital funds each year:

"Management, having limited or no access to capital markets other than for equipment (and in certain instances even this money was unavailable), is compelled to penalize stockholders to obtain funds for modernization and improvements. Since most roads are unable to sell any appreciable amount of mortgage bonds,



Containers for Rail, Water, Road

Seatrain Lines, which for 30 years has operated a non-break-bulk rail-water service between New York and Gulf ports, is expanding into containers. The new containers, presently used only in terminal-to-terminal operations between ports, are loaded twice weekly for movement between New York and Texas City. Twenty-seven feet long,

eight feet wide and seven and a half feet high, the new containers have been designed with an eye on possible extension of service outside present port limits. Door-to-door pick up and delivery off rail sidings, plus economy of rail-water rates, is expected to give Seamobile a competitive advantage in bidding for shipments. the outstanding mortgage bonds are constantly being strengthened by the additional property investment placed behind them and paid for out of retained earnings."

The committee saw, in the 1958 Transportation Act, long-range hope for a strengthened credit position. Pinpointing that provision of the act which specifies that "rates of a carrier shall not be held up to a particular level to protect the traffic of any other mode of transportation," the committee went on to say:

"This section of the act has caused concern in certain quarters lest the Interstate Commerce Commission misinterpret the intent of Congress. It is too early to say whether these fears are well founded, but it is hoped the Commission will be realistic in considering requests for competitive rate adjustments. In the opinion of your committee, a regulatory policy for transportation rates, which gives the carriers freedom to make competitive but compensatory rates, would be a most effective step toward improving the credit base of the industry."

The committee was impressed with the efforts of the railroads to improve their earnings position and eliminate waste, commenting:

"Rail management can be relied on to continue its great work, and evidence of management's desire to greatly strengthen the position of the industry is found in the current series of studies being made of possible mergers and coordination of facilities."

Members of the committee which drew up the report are Alfred J. Ross, chairman, of Dick & Merle-Smith; Charles L. Bergmann, R. W. Pressprich & Co.; James H. Carson, Salomon Bros. & Hutzler; Gustave L. Levy, Goldman, Sachs & Co.; Eugene Treuhold, L. F. Rothschild & Co.; W. Wendell Reuss, W. E. Hutton & Co.; and James L. Sheehan, Dick & Merle-Smith.

Nationalization?

Railroads' lack of capital poses threat, says Major.

"If it develops that the only way we can raise the money to provide adequate rail-road service is by having the government take over the railroads, then the government should take them over." So said President Cedric Major of the Lehigh Valley at a Dec. 1 luncheon meeting attended by representatives of governmental authorities and newspapers from communities served by the railroad.

Mr. Major called the New York meeting to discuss the railroad's plan to seek ICC authority to withdraw entirely from passenger service. This permission, he said, will be asked for "in about ten days."

Mr. Major did not, of course, advocate nationalization—but indicated that such an outcome would follow if conditions made it impossible for private capital to render indispensable service. He made his statement in reply to a questioner who asserted that such a city as New York could not exist without railroad passenger service.

The LV chief executive made it clear that he did not consider the passenger service provided by his company to be a vital factor in the life of the communities the railroad serves. He pointed out that alternative services on frequent schedules are provided in most of the territory by other railroads—and by plane and bus lines. Mr. Major said there are two courses open to the LV: (1) to become a "good freight railroad" or (2) to try to provide both freight and passenger service, as it is now doing, and see its entire operation—freight as well as passenger—become obsolete and inadequate.

"If we had the dollars, we'd love to run the passenger trains," Mr. Major went on to explain. But he sees no alternative but to abandon the service—public policy of providing free and untaxed facilities for other forms of transportation being what it is. Passengers carried have declined from 2.500,000 in 1946 to approximately 650,000 in the current year. Gross passenger revenue (including mail and express) will total approximately \$4,000,000 during the current year, while expense of providing the service will total \$8,000,000.

Impending replacement costs hastened LV's decision, Mr. Major said.

Watching Washington with Walter Taft

• CALL FOR REEXAMINATION of the railroad retirement and unemployment insurance systems will be before the next Congress as part of the industry's legislative program. It will be management's counter-proposal to the drive for liberalized benefits which railroad labor organizations will renew. The labor leaders are meeting in Washington this week to formulate plans for the drive.

THE MANAGEMENT RECOMMENDATIONS have not been worked out in detail. Generally, they are to be based on studies of the system's growing costs in relation to costs of the general social security system. There will also be other studies to determine whether the more liberal benefits are worth their prices.

RETIREMENT SYSTEM TAXES are about three times the social security levies, but maximum benefits are only about 71 per cent more. The unemployment insurance system requires railroads to support minimum benefits ranging from about 125 per cent to 675 per cent greater than minima paid to unemployed of other industries which are under state systems.

A BENEFIT LIBERALIZER sponsored by the railroad unions nearly got through Congress this year. The renewed drive for similar or more liberal legislation will get under way early in the next session. Riding on the reexamination proposal will be management's hope of minimizing the threatened increase in costs.

• TALK OF INCONSISTENCY is entering discussions of the railroad industry's position on subsidies and its call for more freedom to diversify by operating in other fields of transport. It is pointed out that, while the industry wants to end the subsidization of its competitors, some roads are advocating government support of commutation or other unprofitable passenger services. Also raised is a question of whether the call for freedom to diversify is consistent with advocacy of adequate user charges on publicly-provided transport facilities.

THE ANSWERS are easy. Railroads advocating government aid for their burdensome passenger services are offering the alternative of abandonment. They're not asking to be sustained in an unprofitable business. They're willing to get out of the business, if interested communities prefer it that way. As to the diversification-user charge situation, railroads have always expressed willingness to pay adequate charges for whatever use they make of public facilities. Many roads already have substantial, though restricted, trucking operations, but this has not toned down their call for an end to subsidies in the highway field.



The Engineer's Field Report

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FIRM Haure Montana

Special fluid starts 250-ton crane instantly, saves time in emergencies—even at 50° below





GREAT NORTHERN RAILWAY'S 250-TON, RAILROAD CRANE (above) starts instantly with Chevron Starting Fluid in temperatures ranging to 50° below zeroeven after standing idle for months at a time. Former steam-powered wrecker equipment took crew 12 hours to start. This crane with its two 174 h.p. Cummins diesel engines is now available for derailment emergencies on short notice.

"Slow-grind starts on battery power alone waste too much valuable time. Chevron Starting Fluid fires

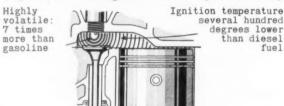
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Big Power Changes on the Way-Ar

The future demand for all types of energy in the United States warrants careful study by the railroad industry. It could be the thing that will keep them in business 25 years hence. Or it could put them out of business.

How the country obtains its increasing power requirements in the next two or three decades is certain to produce marked changes in long-existing transportation patterns. New sources of power, shifting distribution methods, changing markets—all this is already indicated.

Unless railroads anticipate these changes, and move to meet them, present competitive stresses are sure to increase. The effect on bituminous coal, for example, could be far reaching.

The following article, by Dr. Robert H. Smith, a railroad economist who specializes in transport and energy research, outlines what could happen. More important, he suggests some positive steps railroads need to consider today.

The prospect of achieving economic nuclear power has stimulated renewed study of the future demand for all types of energy in the United States.

Most such studies conclude that the demand for energy is likely to double over the quarter-century from 1955 to 1980.

The demand for electric power, of particular importance to railroads, is expected to triple. Coal, which provides the greater portion of that energy, is likely to account for a smaller share of the market, but its consumption should increase by 65 per cent.

From such projections as these it would appear that railroads, particularly in the East, can look forward to continuous prosperity in the transportation of bituminous coal. But first looks can be misleading.

The history of railroads in the development of energy transportation over the past three decades has been the story of a loss of old markets and small gain from new ones. Oil and natural gas are replacing anthracite coal in the heating market; bituminous coal lost out to oil as a railroad fuel. At the same time, rail participation in transporting the more than one billion gallons of fuel oil consumed each year is painfully small.

There now arises real danger that the rails may face a similar prospect in the electric energy market—and with serious consequences. Tremendous prospective

growth in the demand for electric power guarantees no *automatic* prosperity for the railroads.

The position which railroads will occupy in the transportation of coal for power two decades hence may hinge largely upon actions they take in the next few years.

The shadow of the problem they face is discernible. But it is difficult to portray it with conclusive statistics. Railroads are, in effect, twice removed from the demand for power. Their role depends, first, upon the position of bituminous coal as a fuel in competition with oil and natural gas for power generation; second, upon the cost of transporting coal or energy by rail as compared to the cost by barge, truck, pipeline or high-voltage transmission.

Share-of-the-market projections for each of the types of fuel cited above imply that oil and gas prices will rise more rapidly than the price of coal over the next two decades. So the crucial question becomes one of cost—transporting coal or its energy equivalent by rail as compared to the cost of alternative means. There are some statistics on this question which provide some insight into the problem of the railroads in sharing profitably in the expanding energy market.

The current situation of the railroads is portrayed by Bureau of Mines data, which indicate that between 1933 and 1956 the proportion of bituminous coal transported by rail, exclusive of that consumed by railroads, declined from 85 to 70 per cent of total output. A more recent tabulation, on the method of distribution of bituminous coal in 1957, indicates that of the total movement of 493.9 million tons only 225.7 or 46 per cent moved from mine to destination *entirely* by rail.

That this should be the case is evident from the trend, for example, in the electric utility industry.

A study by a leading public utility consulting firm in 1957 listed sixty-three steam electric power plants in service or scheduled for completion by the end of 1960 which were either at or near the mine mouth; near coal fields with facilities to cut down transportation of fuel under standard rail rates; or some distance from producing coal fields and receiving all or a substantial part of their fuel requirements via navigable waterways.

This phenomenon is understandable in the light of the importance of fuel cost in the total cost of producing electric power.

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A sample of 102 coal-burning power plants analyzed by the same consulting firm indicated that the cost of fuel accounted for three-quarters of their combined production expenses. Of this fuel expense, nearly half represented the transportation of the raw fuel. This fact accounts not only for the relocation of plants and the use of trucks and barges but also for the increasing research activity in high-voltage transmission, improvements in thermal efficiency, and the development of pipeline transportation of bituminous coal. Such developments, of course, are aimed at the rail share of the coal transportation market.

Statistics on the comparative costs or rates of rail, barge, truck or pipeline transportation of coal or transmission of its energy equivalent are sketchy, but such data as are available pose real problems for the railroads as they view their prospects in the transportation of fuel for power. For example, of the electric energy to be generated from coal by 1975, it has been estimated that about 78 per cent will be required in areas within two hundred air miles from the center of a county that is presently a large producer of coal, and that 92 per cent will be required in areas within three hundred miles.

It is in the distances under three hundred miles, of course, that the rails have faced their most severe competition in the transportation of commodities other than bituminous coal. Thus the competition in

December 8, 1958

RAILWAY AGE

\-\are the Railroads Prepared for Them?

U.S. ENERGY SOURCES*

	1	955	1	980
	UNITS	PERCENT OF MARKET	UNITS	PERCENT OF MARKET
Coal (million tons)	447	29%	735	23.7%
Liquid Petroleum (billion barrels)	2.8	40.5%	5.8	41.5%
Wet Natural Gas (trillion cubic feet)	10.1	27%	17.4	23.1%
Hydro Power (billion kwh)	120	3.5%	271	3.0%
Atomic Power				8.7%

*Source: Nuclear Energy and the U.S. Fuel Economy, Washington, D.C., National Planning Association, 1958

HOW WILL RAILROADS be affected by future U.S. demands for all types of energy? Chart shows that coal consumption should increase, although its share of the market will decrease sharply.

coal transport is, in effect, an important and growing segment of a much larger problem.

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As an illustration of the economics of this competition, consider the price of moving coal by rail as compared to the cost by alternative methods. In Official Territory in 1956, the average revenue per short-line ton-mile for the transportation of bituminous coal in the mileage block starting at 100 miles was 1.8 cents.

Keeping this figure in mind, look at the projected cost of moving coal by pipeline. The 108-mile coal pipeline from Georgetown to Eastlake, Ohio, will cost about \$13,500,000. The contract based upon the original design capacity called for delivery of 18 million tons of coal over 15 years. This would result in a capital cost of 7.5 mills per ton or 7 mills per ton-mile. To this should be added an annual operating cost estimated at approximately \$800,000 per year or another seven mills per ton-mile, which brings the total cost per ton-mile to 1.4 cents.

It doesn't usually pay to minimize a competitor's potential. The cost of 1.4 cents may be low because the current throughput is above the amount originally anticipated; the pipeline gives evidence of having a useful life considerably in excess of 15 years; and possibly other pipelines could be constructed and operated more cheaply with the knowledge gained from the existing line.

How do the costs of transporting coal by other alternative means compare with rates for rail transportation?

- At the upper end of the cost curve is the truck cost, which is approximately 2.5 cents per loaded ton-mile for a 100mile haul from mines in Western Pennsylvania to Cleveland.
- It has been estimated that the transmission of electric power over a 100-mile line of optimum design at a 90% load factor would result in a coal equivalent cost of approximately 1.65 cents per straight line mile.
- At the low end of the cost curve is barge transportation which for a distance of 100 miles on the Ohio River has been estimated at as little as one mill per ton-mile under optimum conditions where the barge is loaded in both directions and three to five mills for a one-way load.

If these figures are truly representative, the expense to the utility of hauling coal one hundred miles by rail would be below the cost of truck transportation but above the transmission line, pipeline or barge.

The conclusion that rails are at a competitive disadvantage in the transportation of bituminous coal cannot be accepted merely on the basis of such statistics. The cost of electric power transmission and truck transportation increases disproportionately with distance because of line losses in the case of transmission and the length of the empty return trip in the case of truck transportation. The rails would compare more favorably to truck and power line over distances of 200 to 300 miles which are more representative of the length of haul which will be required. On the other hand, both the coal pipeline

and transmission line can follow a more or less direct route from source to market, while the railroads, particularly in the coal mining territory, are circuitous. And the coal pipeline has the advantage that its capacity can be increased to lower the unit cost if markets can be found.

The point of the comparison, however, is to suggest that the growth of energy demands, and particularly for electric power, over the next 25 years does not automatically guarantee the railroads a profitable and steadily growing bituminous coal traffic. An increase in the rail share of the energy transportation market can come only as the result of aggressive competition with alternative forms of transportation.

A study of 143 electric utility plants constructed since 1945 indicates their average size is approximately 150 megawatts, and when the additions for which provision has been made are completed it will probably rise to 250 megawatts. A 250 megawatt plant operating over a 30-year period at an average plant factor of 50 per cent would consume 500,000 tons of coal per year. At an average revenue per ton-mile of 1.5 cents for an average haul of 200 miles, the location of such a plant on a railroad would provide \$1,500,000 per year in gross revenues.

To look at it from another viewpoint, the sixty-three plants mentioned above as located away from the rails have a capacity of 25.2 thousand megawatts. If they were to utilize only bituminous coal and operate at a 50 per cent plant factor they would consume fifty million tons of coal per year. Of course, in many instances the location of the market would result in the off-rail location of the plant regardless of rates or service, but greater attention to this competitive situation might often retain such traffic for the rails.

In the light of existing competition from alternative forms of transportation, as well as from the development of economic nuclear power, what action can railroads take to turn the rising tide of energy demand to their advantage? The answers appear to lie along four lines—improvements in service, changes in pricing policy, diversification and research.

Service: Railroads are forbidden by law to engage in price discrimination. In other industries where price competition has been eliminated (i.e., the "administeredprice" industries) competition occurs on the basis of product or service differentiation. In the railroad industry service differentials can be based upon the eco-

nomics of rail operations. Electric utilities and steel plants, the rails' largest coal customers, require large quantities of coal under long-term contracts delivered at regular intervals. These requirements should permit railroads to move bituminous coal in trainload lots on regular schedules with high equipment utilization and a minimum of classification and other handling. If shippers would cooperate with railroads in reducing rail handling costs, part of such savings to accrue to shippers, it may well be possible to get the costs of rail service more effectively competitive with alternative means of transport.

Auxiliary Services

In addition to such improvements in primary service, the rails might intensify their activity in providing such auxiliary services as plant location studies, technical assistance to the coal industry to develop low cost coal sources, and assistance to rail customers in fuel analysis and the

location of suitable fuel sources.

Rates: Although some progress is currently being made, rail rates are not yet thoroughly adapted to present day competitive economics. Electric utilities are under the same prohibitions with respect to price discrimination as are the rails. But they have long realized the difference between price "discrimination" and rates based upon the inherent economies of providing large blocks of power under long-term contracts. The interpretation of the provision of the law against discrimination, as intended to mean that all shippers large and small, frequent and infrequent, dependable and occasional, must pay the same rate, results in another form of discrimination—discrimination against the large shipper and against the railroad as a form of transportation.

Because the uniform price for both large and small shippers flies in the face of the economics of rail operation, it is truly discriminatory and must in the long-run have serious consequences. The rails would do well to consider seeking permis-

sion of the regulatory agencies to employ utility-type rates in the transportation of bituminous coal, based on reliable cost information.

Diversification: Major railroads, both in the East and West, have already entered both pipeline and truck transportation. In areas where barge competition is a serious threat, efforts to participate in combination rail-barge service, the use of rail rights-of-way for pipelines or electric power transmission lines, and the ownership of coal pipelines are among the possibilities. An example of a type of diversification is the proposed entry by one large Eastern railroad into the pipeline transportation of liquid petroleum gas, a growing new fuel market for the rails and one competitive with the truck or pipeline transport of gasoline.

Greatest Threat

Research: Over the long run the greatest threat to both the bituminous coal in(Continued on page 22)

Railroading



After Hours with

Jin Lyne

TRANSPORT SUMMER SCHOOL—I've just been looking over a booklet on the

one-month summer Transportation Management Program of Stanford University, which looks to be tops from the stand-point of interest and practical content. This program is aimed, not just at railroad men, but at people from all forms of transportation. Started under Southern Pacific sponsorship, the program has attracted railroad men from a half-dozen different companies—a couple of them as far away as New England.

EVEN VS. STAGGERED JOINTS—I note that President John
Budd of the Great North-

ern discussed the "even joints versus staggered joints" question in the laying of track—in our last week's issue (p. 32). He makes clear the point that even joints double the impact of the load on the understructure of the track—hence are impractical where traffic is heavy and fast, though the even joints simplify track-laying.

Joint spacing and length of rail have a side effect that has nothing to do with engineering—they alter the rhythm of trainriding. Long rails and even joints (such as they have in Britain, for example) will fool the passenger accustomed to US trains into the belief that the train is just creeping along, when it isn't.

NO. 1 RAIL FAN?—Rogers Whitaker, of "New Yorker" magazine, could make a strong case for himself as the world's champion railroad fan. He tells me he has done 1,400,950 miles of travel by rail, and that he has ridden every single US passenger train listed in the Official Guide, including commuter and branch line runs.

WHERE LETTERPRESSES WENT—Walter Ayers, of the N&W chief engineer's office at Roanoke, has partially relieved my curiosity about what

became of all the copying presses that used to be standard equipment around railroad stations and offices. He says he tried to locate one of these presses not long ago and found that, in his vicinity, those that remained had been contributed to scrap collections during the war. It's too bad if at least one hasn't been kept somewhere. These presses are an episode in the development of mechanical equipment for record-keeping purposes—as much so as the card punch and electronic computer.

A RULE 99 STORY—There was an investigation of a rear-end collision (reports E. L. Vlasak of Columbus, Neb.) at which the rear brakeman insisted that he had gone back to flag, exactly as he should have done. Repeated questioning failed to shake his testimony. After the hearing was over, the kindly superintendent who conducted the investigation got the brakeman aside.

"George," he said, "the hearing is all over and nothing is going to happen to you—but, honestly, were you really out flagging as you said?"

"Yes, boss," was the reply, "I was back there flagging all right—but I was scared to death somebody was going to ask me if my red lamp was lit."

WHAT A HOSE IS FOR—A couple of country boys went to railroading in the man-shortage days of the war (writes H. G. Murphy of Standard Railway Equipment at Hammond, Ind.) One was told to connect the airhoses (the purpose of which was not explained). The other was told to take a bucket and broom and scrub out the caboose.

The hose-coupler went about his assignment, but a half-hour later the caboose scrubber was still idling. Asked why the delay, he said:

"I'm waiting for the engineer to turn the water into the hose my pal has been hooking up for me."

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Power supply for the transmitting and receiving klystrons. The only active components in this supply are three voltage regulator tubes.

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Look at these important features:

- Easy to install-Standard 19-inch rack mounting; compact plug-in construction.
- Easy to maintain—Miniaturized plug-in components similar to Lenkurt 45-class equipment; all components accessible from front; built-in test facilities.
- Less power consumption—Fewer tubes; operates from standard battery supplies or from 115-volt a.c. mains.
- Stand-by flexibility Frequency diversity or space diversity; combining or transfer facilities.
- Economical expansion—With r-f circulators 2, 3 or 4 terminals can be added to same antenna system.
- Automatic switching—Permits unattended operation; back-to-back terminal equipment permits dropping and reinserting of channel groups at repeater points.
- System length—Up to 300 miles with medium loading and multiple repeater points or considerably farther depending on specific requirements.

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How many railroaders think . . .

the public is interested . .



"\$3 million a year taxes."



in hearing about railroad problems?

"We have a lop-sided . . .

Here's How One Road



transportation policy (and) . . .



"Competing with government."



"We aren't talking 4% vs. 6%."





"The monopoly disappeared."

it's squeezing our railroads."



Sometimes the crowd got so big the volume was turned down to control it.

Drew A Crowd With Its Story

No campaign railroads can undertake is more crucial than that of winning public opinion. It's a continuing job; it has to be if the industry hopes to bring about changes in transportation policy which it needs to grow and prosper. Here's a chapter from one road's program for creating an informed public. It's something other roads may want to pick up and use.

The New York Central figures 1958 was a turning point in the industry's fight for relief from regulatory laws that made sense a half century ago.

But stopping erosion is one thing, rebuilding is quite another. With 1959 shaping up as a busy legislative year, it's never too early to begin the grass-roots job of keeping the public informed.

So the Central has moved into Grand Central with a movie—one the road made and used successfully in the early months of 1958.

For the past three weeks, 8 a.m. to 7 p.m., a TV-size movie projector has been drawing big crowds with continuous showings of "The Big Train." The public reaction has amazed even NYC officers.

A photographer, camped behind a nearby train gate and armed with a telescopic lens, recorded the crowd reactions you see on these pages.

One point is obvious: the public, even hurrying commuters and busy shoppers, is interested in railroads. It stops to look; stays to listen. At times the crowd swelled to where it threatened to block traffic in the giant concourse, forcing the operator to lower the sound to reduce the number.

What these people have been seeing, and hearing, is an out-and-out railroad story—with the emphasis on the positive.

"The Big Train" is a 30-minute look at up-to-date railroad facilities: the power, the cars, the yards, the CTC, the track, the shops, the research facilities, the behind-the-scenes control centers and equipment—all the things that railroad men see and know but which are eye-catching sights to laymen.



Movie men Perlman (r.) and Nash start film's first showing.



- New Safety Shelf—to support mated coupler in event of pullout.
- Interlocking—Guard arm and aligning wings similar to type H Coupler.
- Reduced free slack.
- Improved positive anti-creep.
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- Increased strength.
- Reduced wear.

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Refer Adv. No. 11878

Ask for Bulletin No. 202..

Coupler, Yoke, Follower, and Striker interchangeable as a group with present standards.



New Products Report



New Dataplotter

A new method of presenting findings in graph form is made possible with an electronic machine which quickly and accurately reads information from punched cards and plots it automatically. The Dataplotter was designed to ease the task of interpreting data produced by computers by converting the data automatically into graphs, curves and mechanical drawings. Executives, engineers and architects can use the machine on an hourly basis. Service Bureau Corp., Dept. RA, 425 Park Ave., New York 22.



Plastic Jar Line

A plastic-jar line of EWA Exide stationary flat-plate batteries is now available in a complete range of capacities for power requirements in telephone, microwave and emergency lighting. EWA battery capacities now range upward in 60-a.h. increments from 180 to 660 a.h. (at the 8 hr discharge rate). Added to the line are 13, 17 and 21-plate single-cell batteries with capacities of 360, 480 and 600 a.h., respectively. The line now includes two and three-cell batteries with seven plates per cell and single-cell batteries with from 9 to 23 plates.

All EWA batteries have jars and covers of lightweight, heat-resistant, shock absorbent polystyrene. Electrolyte level lines are marked on all four sides of the jars. Batteries are supplied either charged and filled with electrolyte, or dry-charged. A special explosion-control device consists of a polystyrene hood or baffle over the plates which collects the gases and channels them through a cylinder vent and plastic vent plug. The covers are bonded permanently to the jars, providing leakproof construction. Exide Industrial Division. Electric Storage Battery Company, Dept. RA, Box 8109, Philadelphia 1, Pa.



Transcopy Meteor, a compact high speed photocopy unit, exposes, develops and prints finished copies up to 15 in. wide, of any length, in one-half minute or less. The two-tone (gray-rite and mistgray) Meteor is designed for use under fluorescent or bright office lighting, with exclusive, built-in filter Safety Paper. It can be plugged into standard electrical outlets. Overall dimensions are: length 26½ in., width 15½ in., height 9¼ in., throat width 15 in. Remington Rand Div., Sperry Rand Corp., 315 4th Ave., New York 10.



Safety Circle

The Safety Circle is a device that minimizes fatalities and serious accidents to crane and shovel operators, leaving them free of tension from fear when equipment swings. It is easily mounted on any make or model of crane or shovel and provides an easy-access job-view platform. Oiler's job is easier and safer. For movement of equipment, Safety Circle hinges upward and locks securely in position. Designed and patented by the Andrus Machine Works. Distributed by Answers Inc., Dept. RA, 1215 Oak Street, Eugene, Ore.



Gas Fork Trucks

Two new heavy-duty, gas-powered fork trucks feature power-steering as standard equipment, pneumatic tires and patented "Wear-Proof" clutch, guaranteed unconditionally for 12 months. Model G-3OH has 3,000-lb capacity at 24 in. load center, and Model G-40, 4,000-lb capacity at 24 in. load center. Clutch consists of mechanically simplified 2-to-1 gear reduction. Horizontally mounted clutch and power train design introduces independent replacement of any part. Pettibone Mulliken Corp., Dept. RA, 4700 W. Division St., Chicago.

BIG POWER CHANGES

(Continued from page 16)

dustry and the railroads is the development of economic nuclear power. But the tremendous progress which has been made toward the achievement of that power has resulted only from federal expenditure of literally billions of dollars for research. development, construction and operation. There is no way to determine what portion of the expenditures of the Atomic Energy Commission and the Defense Department is allocable to the development of power reactors; but there is little question that similar sums expended to improve the thermal efficiency of conventional generation, to reduce the cost of coal transportation, or to accelerate the development of high voltage transmission, would result in lowering the cost of conventional electric power to a point which would postpone the date when nuclear power could become economically feasible.

Research Expenditures

The attitude of railroads and the coal industry has been at first to oppose the expenditure of funds by the AEC and later to support a modest federal expenditure for research largely on the technical prob-

lems of coal combustion. But the expenditure is small in proportion to the threat to railroads from the expenditures for nuclear power development. The nuclear power subsidies pose as serious a threat to the rails as do the subsidies to other forms of transportation against which the rails have long had to contend. If the rails are not to lose the opportunity to participate importantly in the movement of large volumes of bituminous coal over the next twenty years they and the coal industry should consider seeking substantial appropriations for research designed to lower the cost of coal production and rail transportation and to increase the thermal efficiency with which coal can be consumed.

On a longer-range basis it may become increasingly important for the rails to enter non-rail forms of fuel and energy transportation.

It is the affirmed policy of the government to achieve economic nuclear power and this concept is already expanding from electric power to reactors for industrial process heat. Given enough time and enough money (and the government has spared neither—in the most recent session of the Congress the AEC received more funds for reactor development than it requested) the result will be achieved.

Economic nuclear power means power

at or below the cost of power from alternative sources, in the case of electric power, the source being primarily bituminous coal. The principal economic advantage of nuclear power is, after all, the fact that it frees energy consuming industries from their dependence upon fuel (or hydro) resources which are by geological accident highly concentrated, exhaustible, and costly to transport. The object of nuclear power is to bring energy to the market at the same cost as if the market were located at the energy source. In other terms, one goal of nuclear power is to climinate the costly transportation of conventional fuel. No one knows what the timetable for these developments will be, but significant progress is being made. Many economists expect that the nuclear share of the power market will be small until the 1970's and then grow rapidly.

Competition Will Grow

The prospect facing the railroads, then, is for increasingly severe competition in a growing market for coal until nuclear energy enters the picture. Thereafter the market itself may decline, unless foresighted action forestalls the event. The railroads cannot begin too soon to take prompt and decisive action to assure their position in the future energy market.

Current Publications

FROM THE MANUFACTURERS

WELDER'S TRAINING MANUAL, INERT GAS PROCESS. 132 pages. Illustrated with photographs, drawings, charts and statistical tables. Technical Publications Department, Kaiser Aluminum & Chemical Sales, Inc., Dept. RA, 919 North Michigan ave., Chicago 11. Available free on request on company letterhead; \$1 per copy when requested for personal reference use.

Material in this manual covers three primary functions essential to aluminum welding. The opening section presents essential factors about both tungsten-inert-gas and metal-inert-gas welding techniques. The second and third sections give step-by-step exercises to promote proficiency in metal-inert-gas welding. Exercises are based on actual practices originated in Kaiser's Department of Metallurgical Research.

BOOKLET KD-849 (FLEXOPRINT). 20 pages, illustrations. Remington Rand Division, Sperry Rand Corp., Dept. RA, 315 Fourth ave., New York 10. Free.

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Two major problems that must be faced when producing any kind of published list are cost of change and speed of publication. Flexoprint is a system designed to solve these troublesome production problems. In the production of directories, catalogs, price and parts lists, change is the major cost factor.

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A NEW APECO PRODUCT FOR YOUR OFFICE. 18 pages, illustrations. American Photocopy Equipment Company, Plastics Division (Dept RA), 2100 W. Dempster st., Evanston, Ill. Free.

Describing plastic binding for office paperwork, the booklet is itself bound in plastic so the reader can observe directly the advantages of the product. It introduces the APECO method of plastic binding, pictures the "Bindak" punching and binding units available, describes the company and its services, and compares the cost of plastic with other binding methods. The booklet also includes a chart of suggested applications for plastic binding, broken down into office departments. BULLETIN IT-528. 12 pages. C & D Batteries, Inc., Dept. RA, Conshohocken, Pa. Free.

Gives details on the firm's complete line of premium Slyver-Clad truck batteries. It covers plate and cell construction, weights, sizes and tray arrangements for both rider and hand trucks, connector data and a complete listing of the company's sales and service offices. In addition, it lists some of the advantages of using electric trucks.

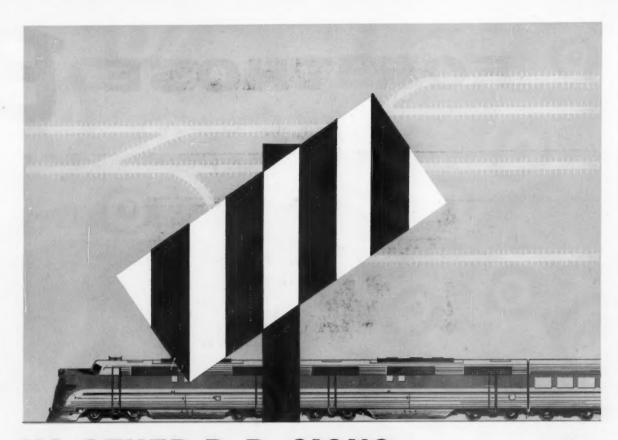
COOL-PAK JOURNAL LUBRICATOR. 6 pages, illustration. Uni-Pak Corp., Dept. RA, Box 8302, Pittsburgh 18. Free.

Cool-Pak, a revolutionary approach to

Cool-Pak, a revolutionary approach to journal lubrication, makes use of wicking loops which maintain constant contact with the journal by means of stainless steel center cores. Featured in the bulletin are answers to sixteen questions railroad men ask most about Cool-Pak, as well as construction details and installation directions.

HOW TO STRIP PAINT (Booklet F7893). 6 pages. Oakite Products, Inc., Dept. RA, 19 Rector st., New York 6. Free.

Four methods commonly used by leading industrial plants to remove paint are described in detail. The booklet first describes 12 different paint stripping compounds and then discusses the removal methods—the Oakite hot-flow-on method, tank immersion. steam gun, and brushing. It also discusses treatment of metals before repainting, and prevention of rust on stripped surfaces in storage.



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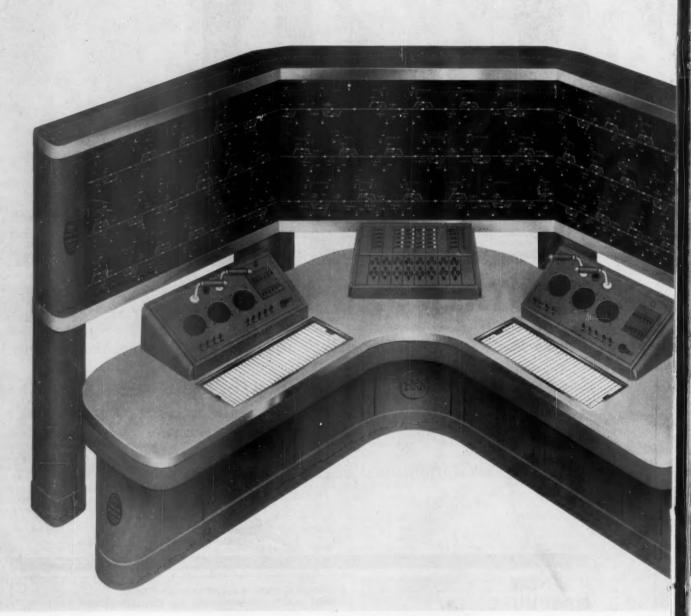
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Letters from Readers

'Beneath Contempt'

Kingston, Canada

To the Editor:

I have read the interview with Mr. [H. E.] Gilbert in your issue of Nov. 3. I take it that he is deeply concerned lest discussion of the use of firemen-helpers on diesel locomotives in the United States be influenced by the conclusions of the Kellock Commission in Canada which was appointed to consider that question.

As a citizen of Canada, I have no wish to express any opinion upon an American problem. You in your country can carry on that discussion in any manner that

seems proper to you.

But insofar as the Canadian experience is concerned, Mr. Gilbert bears the responsibility that comes from involvement in our affairs as head of a union with members from coast to coast. When he speaks, he will be held responsible in Canada if he wilfully misrepresents the facts of what was done here, and, especially, if he attacks the independence and honor of the respected judges who formed the Kellock Commission.

Canadians have already had one taste of Mr. Gilbert's efforts. In about a month last spring, he did more to establish justice of the CPR case in the public mind than the railway's own public relations officers could have done in years of concentrated effort. And now we have had enough. If he refers in future to what was done here, let him do so clearly and honestly or not at all.

J. L. McDougall Queens University

B&O Branch Line

Cumberland, Md.

To the Editor:

Appreciate very much the very fine article on our South Branch Sub-Division ("How One Branch Line Pays Off," RA, Nov. 3, p. 30).

We are proud of this branch line operation and would like to send some reprints of the article to our important shippers at Romney, Moorefield and Petersburg, W. Va.

> L. W. Brown Division Freight Agent Baltimore & Ohio

One Way Each Day

Monroe, La.

To the Editor:

In reading article entitled, "How One Branch Line Pays Off," which appears in the November 3 issue of Railway Age, I notice on page 33 it is stated, "Engine crews operate on a mileage basis, and have an agreement that calls for crews to make the daily round trip. The trainmen have a different agreement. Two crews are as-

signed, one working one way each day." However, below the picture in right hand corner of this same page it is stated, "Train crews operate in turnaround service."

Will you please advise which of these statements is correct?

D. T. Barksdale Superintendent Missouri Pacific

(Editor's note: Text is correct, caption is in error. Our faces are red.)

'How to Fool Mr. Khrushchev'

Cambridge, Mass.

To the Editor:

I wouldn't be without Railway Age or Railway Signaling and Communications. The articles in each are timely and informative. The Action Page article, "How to Fool Mr. Khrushchev" (RA, Oct. 6, p. 42) is full of good meat—every Senator and Representative should receive a copy.

E. A. Carlson Manager of Railroad Sales Simplex Wire & Cable Co.

Added Improvements

New York, N. Y.

To the Editor:

Our attention is attracted by one section in particular in your feature presentation "Tomorrow's Railroad" in Railway Age of October 27. On page 43, you list four needed improvements. Our currently available progress, with application to these problems, is as follows:

1. A better brake to control slack action. We are able at this time to operate tranis fully automatically, thus eliminating road crew costs and the need for the excessively long trains in which slack action is experienced. The attempt to control slack action avoids the real problem which is to make it unnecessary to accumulate cars for long and therefore infrequent trains. The automation does not try to solve the problem, it eliminates it and at the same time makes possible other savings and service improvements.

2. A self-aligning coupler with built-in control lines: Self-aligning couplers are easily accomplished by the use of centering springs. Couplers with built-in controls have been in use for some forty years now.

3. Automatic bleeding: Techniques available to us, some developed in our own laboratory, can accomplish this pur-

4. Inexpensive power switch machine: Our machine design section advises that it can adapt readily available, reliable operators of various kinds to any of several widely used switch stands, retaining the possibility of manual operation, adaptability to interlocking, etc., at a cost but a small fraction of the cost of currently sold power switch machines.

To the foregoing list you published, we would add two more items. They are:

5. A remotely controlled uncoupling device that will selectively uncouple cars being classified, controlling angle valves if needed: Techniques now available in our laboratory, some developed by us, can accomplish these purposes.

6. A device to read car numbers automatically and reliably, directly into commercial data processing equipment and control elements: Our laboratory has two systems available for this purpose that will meet the service requirements, at modest cost.

In all the above, the only remaining requirement is a client. All of the above, except numbers one and four, need an element installed on each car. Such equipment, if universally adopted, could pay its own way, industry-wide, in very short order.

You can do us and your readers a favor if you will tell us who will buy these developments, without involving a sales expense that will raise the cost of the results to levels your industry cannot afford.

Theodore J. Kauffeld, M.E., P.E. Consulting Engineer

'Keeps One Versed'

Oakland, Cal.

To the Editor:

Your article "Tomorrow's Railroad" is well written and timely. The detail your publication has gone to in connection with the railroads and possibilities and tools they have at hand is very well written. This also goes for other articles in Railway Age. I find your magazine very interesting and appreciate the information it contains, which keeps one versed on our present times.

George D. Cron, Traffic Manager Chevrolet-Oakland Division of General Motors Corporation

Combined Issues

Dearborn, Mich.

To the Editor:

I have looked over the last issues of Railway Age for September and October, incorporating, as they did, the material which had theretofore been published separately in Railway Freight Traffic. The change seems to be a very worthwhile one and I am hopeful that it will be successful in continuing the sales promotional job for railway freight service which you originally had in mind in inaugurating Railway Freight Traffic.

Freight Traffic . . .

I liked your running article entitled "Tomorrow's Railroad" in the October 27 issue. Whoever got this thing up used a lot of imagination and did a masterful piece of writing.

David E. Smucker, President Detroit, Toledo & Ironton

'Painless' Wage Hike Formula?

Canada's Transport Commissioners have decided that anticipated labor costs—like traffic estimates and forecasts of the economy—can be a legitimate factor in setting freight rates.

► The Story at a Glance: A probable increase in labor costs is a legitimate factor to be considered in setting freight rates, according to Canada's Board of Transport Commissioners.

Rates, the Board said, are made for the future. Consequently, consideration of what rate may be reasonable may include not only facts from past experience but also opinion as to what may come. Future labor costs play a part in forming this opinion of what lies ahead.

This look-ahead theory as applied to labor expense was contained in the Commissioner's order granting the Canadian railways a 17 per cent freight rate hike. The roads made application for the increase to cover wage costs not yet paid or even contracted for.

Both the Board and the Cabinet, however, back away from any implication that this rate decision will serve as precedent. The threat of a nationwide rail strike was the pressure which forced approval of this increase. But as for the future—the government has served notice on both management and labor: reach agreement first, then go for rate hikes if need be.

When Canada's railways attempted to tie wage increases to rate increases, they hit stiff opposition. Counsel for the provinces (all but Ontario and Quebec) contended that the Board of Transport Commissioners would set a dangerous precedent by approving a rate boost in advance of the actual wage boost. The non-operating unions-those directly concerned with the present wage case—have never conceded that the rate case is connected to the wage issue. But the railways moved ahead doggedly, determined not to commit themselves to increased labor cost without first obtaining assurance of sufficient revenue to cover the extra cost.

Approval of the rate increase means that shippers will be paying the railroads almost \$60,000,000 additional next year. Increased labor costs will eat up the entire amount. And the railways will be no better off than they were, from a standpoint of net income.

The unions, backed up by a Conciliation Board recommendation for a wage hike, took a detached view of the rate negotiations. They made their move by accepting the Board's report, then charged the carriers with stalling and set a strike date. The railways, in a tight economic spot, had to go for rate increases before accepting or rejecting the wage recom-

mendations. And a reluctant government, faced with decision five days in advance of a strike, grudgingly approved the rate increase.

The carriers and the non-ops have already reached agreement on the new wage rates (which became effective Dec. 1). Negotiations have been resumed with the operating crafts and it's expected the eventual wage agreement will generally follow the non-op pattern.

The original ruling by the Board of Transport Commissioners in the non-ops case was in many ways a victory for the first-things-first theory. The final ruling by the Cabinet tended to neutralize that victory.

In granting the carriers 17 per cent and 22 cents per ton on coal and coke (in lieu of 19 per cent and 25 cents per ton requested) the Board had this to say about the justification for considering the probabilities on labor costs:

"When the Board fixes rates it fixes them for the future, and when the question of what are reasonable rates for the future is before the Board it may consider not only what may be established on the basis of past transactions but also may form a judgment and opinion as to what will be reasonable rates for the future under conditions which have not yet ecurred and consequently must be estimated . . .

"In fixing freight rates for the future (the Board) has on previous occasions considered future traffic volume; what the state of the economy would be; what savings and economies were likely to result from, for instance, dieselization and other technological improvements; and what the effect of freight rates would be . . .

"If the Board may look to such things and take them into consideration in fixing freight rates, it considers that it may also take into consideration for the same purpose the probability or otherwise that increased labor expenses will be paid by the railways in the period for which freight rates are being authorized.

"The Board is satisfied that the probability of payment by Canadian National and Canadian Pacific of the increased labor expenses is so strong that it should take them into consideration and include and count them as payable expenses in appraising the financial position of the railways for the immediate future."

Counsel for the provinces held that consideration of future labor expense as payable and authorization of increased rates on that basis would set a dangerous prece-

dent. Such action, the provinces said, would involve the Board in the determination of wages and in "premature and unwarranted" rate increase applications.

The Board passed off the objection, but added this warning to its opinion:

"The Board expects that wage demands of employees will continue to be dealt with by way of arms-length bargaining in good faith and that recourse will be had to the normal processes of collective bargaining . . . In any event, the Board has power to deal appropriately with an abuse by any party of the right to apply to the Board for relief, and it warns the parties concerned that its decision in this application has been arived at in the particular circumstances established by the evidence. It cannot be anticipated that the Board will accede in future to applications for rate increases due wholly or partially to proposed wage increases until agreement has been reached between the employees and the railways by completion of the usual processes of labor negotiation."

Acting Prime Minister Howard Green viewed the situation even more strongly. The type of rate boost approved, he noted, "is not in accord with the government's long-range plans . . . We consider that, in future, the railways and their employees must come to a definite agreement before a wage increase should be accepted by the Board of Transport Commissioners as the basis for an increase in freight rates. Otherwise, the Board . . . is apt to be forced into making judgments about wage settlements which are not its proper responsibility. In the present case we are not allowing the appeal (by the provinces) on this ground because to do so at this stage would precipitate a nationwide strike over an increase in wages . . . which increase neither the railways nor the provinces have resisted or will resist."

Mr. Green also noted that "there are serious inequities in the present freight rate structure which have both contributed to and been aggravated by the system of horizontal rate increases . . . A study is being undertaken at once to work out measures to relieve against inequities in the freight rate structure, including any that may be aggravated by the present increases."

The proposed wage increases cost CNR \$41,500,000 and CPR \$26,500,000 if applied to all railway employees. The rate increases authorized by the Board of Transport Commissioners would provide estimated additional revenues of \$32,000,000 for CNR, \$25,000,000 for CPR.

4 RAILWAY AGE O

REVENUES AND EXPENSES OF RAILWAYS

(Dollar figures are stated in thousands: i.e., with last three digits omitted)
MONTH OF SEPTEMBER AND NINE MONTHS OF CALENDAR YEAR 1958

Name of Road		Average mileage operated during period	Freight	Operating Page.	Revenues Total (inc	c. misc.)	Maint. Total T	nt. Way at Total	B	7	Total	Deprec.	Traffic	Trans-	Total 1958	Total 1957	Operation 1958	rating ritio	Net from railway peration	Railway tax accruals	Net Ral operation	lway nting ne ne 1957
Akron, Canton & Youngstown Alabama, Tennessee & Northern Atchison Topeka & Santa Fe	Sept. 9 mos. 9 mos. 9 mos. 9 mos.	171 271 214 214 13,086 13,119	3,786 3,786 2,286 42,671 360,388	3,167	3,791 2,50 3,791 360,461 429,398	568 4,973 284 2,963 44,680 453,409	54 465 50 446 6,538 53,391	652 652 49 443 7,849 67,552	1.017 7,260	63 580 10 212 9,581 84,859	74 650 15 146 9,992 94,686	115 6 6 13 18 2,360 20,891	354 354 4 4 37 11,253	1,293 1,293 87 784 17,725 154,215	.,			772.7 57.1 86.1 77.7	- in	74 370 9 6,765 58,967 42	43 119 47 121 5,564 42,934 41	412 412 19 338 2,133 41,981
Atlanta & St. Andrews Bay. Atlanta & West Point. Western of Alabama.	Sept. 9 mos. 9 mos. 9 mos. 9 mos.	81 81 93 133 133	3,106 2,40 2,022 2,395	2117	3,139 3,139 2,709 332 2,929	3,432 3,432 2,853 3,812 3,012	32 328 328 44 404	33 42 393 53 453		1	263 663 693 593	8 66 14 129 173	153 153 176	632 1,316 1,214		1,516 2,615 2,615 2,667		MALOS	200 254 254 75 444			232 298
Atlantic Coast Line. Charleston & Western Carolina Battimore & Ohio 9	Sept. 9 mos. Sept. 9 mos. Sept. 9 mos.	5,306 5,298 343 343 5,940	10,161 90,725 5,961 29,280 252,718	11,634	110,955 110,938 5,577 32,671 283,722	11,923 123,417 5,341 38,679 349,774	1,834 16,321 11,040 3,499 28,777	1,884 18,418 1,269 4,483 40,258	1,851 14 71 664 5,096	21,304 21,017 87 765 5,810 48,643	2,981 26,583 97 897 7,145 65,265	654 6,004 29 262 1,141 10,240	4,073 23 193 933 8,440	4,831 45,564 165 13,994 125,584		16 K13 104,018 4,115 30,638 280,956	83.8 83.9 77.4 79.3 86.2	90.8 775.7 777.0 80.3 56	-	1,000 110 930 2,097 2,891	5,682 7 5,682 7 5,682 7 5,752 3	7,252 65 616 3,442 28,492
3 : : !	Sept. 9 mos. Septil 9 mos. Septil 9 mos. 9 mos. 9 mos. 9 mos. 9 mos.	2662 2662 2663 2663 2663 2663 2663 2663	1,818 621 16,529 2,677 12,955	84 634 209	2,543 2,543 11,166 2,694 13,085	2,440 749 11,982 3,098 22,983	2,272 2,272	525 144 2,444 228 2,005		336 336 2,570 4,528	323 270 2,412 638 5,998	1,2 1,632 1,261	19 32 297 388 383		2,549 840 9,519 1,478 12,394	2,572 811 9,449 1,610	102.9 123.7 123.7 123.7 123.7 14.9					795 164 363 954
Boston & Maine. Canadian Pacific Lines in Maine. Carolina & Northwestern.	Sept. 9 mos. 9 mos. 9 mos. 9 mos.	1,570 1,570 234 234 284 284	4,990 44,035 416 5,276 2,398 2,304	6,721 6,721 448	57,341 57,341 5,969 2,357	7,102 64,675 407 5,636 2,708	8,235 1,136 1,136 43	1,137 9,613 1,676 1,676 519	1,362 1,362 152 152 63	859 7,840 866 28 271	8,131 63 951 19 179	2,641 17 156 21 177	1,346 7,9 7,9 4,7	2,736 26,932 1,757 1,757 683	4,938 47,972 3,989 1,566	5,557 51,846 4,363 1,545		0000000				474 474 483 483 489
Central of Georgia. Central Vermont	Sept. 9 mos. Sept. 9 mos. Sept. 9 mos.	1,763 1,763 1,763 600 603 375 378	3,241 28,296 37,544 32,572 6,805	1,125 4,512 4,512 507	3,582 31,490 4,612 40,081 7,951	3,686 33,001 5,103 44,909 979 8,756	5,242 4,782 4,782 2,484	548 4,888 668 5,134 478 2,552	432 1,131 1,131 171	5,832 6,963 93 946	5,631 880 8,008 1,001	1,717 1,717 1,314 86	1,528 655 658 658 118	1,456 13,103 2,402 19,499 3,273	3,053 27,404 3,883 33,897 7,233	2,945 26,886 4,080 36,132 7,529	85.2 84.2 84.2 101.8	79.9 79.9 86.8 86.8		1		491 366 366 196 533
Chesapeake & Ohio Chicago & Eastern Illinois Chicago & Illinois Midland	Sept. 9 mos. Sept. 9 mos. Sept. 9 mos. 9 mos.	5,131 5,131 862 862 121 121	30,527 239,980 2,605 22,554 4,314	4,758	32,724 259,691 3,808 26,252 4,483	37,829 326,920 22,969 28,843 644 6,015	3,350 27,840 3,355 3,331 40 353	4,424 39,374 415 3,335 436	4,207 30 281 77	4,882 43,762 4,372 91 918	5,638 53,468 4,790 124 963	16,867 16,867 1,352 24 218	7,621 1,285 1,285 277		21,258 188,136 21,302 21,302 3,179	24,386 222,254 2,423 22,197 3,467				4,847 29,191 1,834 105 700		100 100 100 100 100 100 100 100 100 100
Chicago & North Western Chicago, Burlington & Quincy Chicago Great Western	Sept. 9 mos. 9 mos. Sept. 9 mos.	9,289 9,315 8,710 1,469 1,469	16,813 132,571 18,988 153,282 2,842 24,562	13,219 1,691 15,075 88	19,869 22,692 22,698 186,090 3,044 26,235	18,809 164,800 21,622 189,077 3,020 28,161	3,141 24,126 3,233 24,834 4,121	26,571 4,115 30,614 4,205	3,384 3,384 4,075 404	25,905 33,545 33,545 3,901	3,163 26,705 3,677 33,162 4,297	8,736 8,736 8,929 1,186	575 4,732 5,480 1,134	68,378 8,682 74,533 8,973 8,450	15,432 132,600 17,282 147,318 2,079 18,306	15,584 17,839 153,662 2,939 18,956	77.7 83.0 79.1 68.3 69.8	882.8 882.8 677.8 8 677.8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4,437 27,093 27,093 38,773 10,056 7,930	11,262 11,136 12,548 18,223 1,716	1,707 6,400 2,155 15,800 3,55 3,193	875 1,970 1,393 384 384
Chic., Milw. St. Paul & Pacific Chicago, Rock Island & Pacific Clinchfield.	Sept. 9 mos. Sept. 9 mos. Sept. 9 mos. 9 mos. 9 mos.	10,590 10,590 7,591 7,591 293	20,486 152,284 14,398 128,930 1,814 15,325	11,009 1,223 12,206	23,841 180,905 17,096 154,415 1,825 15,424	22,940 190,766 16,554 157,662 1,966 17,420	4,041 28,823 2,470 19,465 2,049	3,288 31,953 22,625 22,353 2,697	3,900 2,242 2,228 2,228 193	3,547 31,751 26,393 26,393 2,910	3,456 24,007 2,981 26,699 3,567	8,174 8,174 5,629 920	4,758 4,905 4,905 561 564	8,640 73,266 6,725 60,962 471 3,807	17,944 149,494 13,612 120,259 1,140 9,908	16,804 137,901 132,693 122,693 11,265	82.5 779.6 62.5 64.2	73.3 82.8 82.8 77.8 64.3 3	31,411 3,484 34,136 5,516	1,549 13,987 13,659 13,639 1,826	3,583 10,263 9,581 648 5,118	3,325 11,722 661 11,204 698 5,841
Colorado & Southern	Sept. 9 mos. 9 mos. Sept. 9 mos.	716 1,362 1,362 39 39	1,250 9,734 2,075 15,364 1,559	1,253	11,466 2,485 18,593 2,518	11,503 11,885 2,131 16,714 3,436	1,575 2,546 2,546 168	1,845 2,968 1,968 117	25 169 39 321 26	1,793 2,593 2,503 276	1,960 2,241 2,291 383	587 445 463 109	35 311 69 63 63 13	4,747 4,747 7,262 115 920	1,171 9,075 1,601 14,012 1,529	1,045 9,483 1,493 13,589 1,890	79.9 64.5 60.3 60.7	69.5 79.8 81.3 55.0	2,295 2,4453 4,492 1299 989	136 1,431 376 1,389 606	1111 2566 1,127 459 348	836483 836483 836483
Delaware & Hudson	Sept. 9 mos. 9 mos. Sept. 9 mos.	764 764 922 922 2,155	3,722 31,543 4,680 42,883 7,417 51,689	1,268 7,268 7,006 2,309	4,019 34,353 6,164 57,294 7,920 55,893	4,892 42,383 7,386 64,648 7,937 64,150	4,167 732 6,553 6,583 6,581	5,033 7,066 7,866 7,804	621 216 1,613 845 845	5,781 1,113 9,688 9,991 8,367	707 6,934 1,070 9,427 1,069 9,533	1,621 3,353 3,189 2,855	915 191 1,678 2,652	13,362 13,362 3,219 30,289 17,626	2,787 26,690 5,619 51,617 4,453 37,371	3,248 30,014 5,954 54,908 4,792 41,275	69.3 77.7 91.2 96.1 66.9	66.4 70.8 84.9 68.4 64.3	1,233 7,662 5,652 5,677 8,522	643 3,717 5,934 1,742 9,487	544 3,120 1,559 1,690 1,690	896 6,787 769 2,964 1,582 1,991
Detroit & Toledo Shore Line Detroit, Toledo & Ironton Duluth, Missabe & Iron Range	Sept. 9 mos. 9 mos. 9 mos. 9 mos.	8884488 844488	4,599 1,382 11,751 5,174 24,642		555 4,987 1,486 12,261 6,028 28,850	5.917 1,777 16,819 8,374 47,332	545 1,791 4,436	651 2,323 4,737	33.4 254 254 966	78 642 3,095 5,613	78 716 3,686 3,686 6,930	24 216 140 1,194 1,619	185 53 891 100 110	1,888 438 3,922 1,419 9,295	373 3,415 1,139 10,133 2,728 21,620	3,685 1,258 11,787 3,578 27,689	67.3 68.5 76.6 82.6 45.3	67.5 62.3 70.8 70.1 58.5	1,571 3,47 3,300 7,230	64 518 104 948 1,892 4,767	233 233 1,318 2,332 2,332	3.833 3.833 8.357 8.357
Duluth, So. Shore & Atlantic	9 mos.	544	4,640	21.3	4,945	5,956	961	1,231	94	103	1,287	236	190	1,862	4,264	5,221	86.3	74.9	118	31	322	131

(Continued on page 30)

Page ø Servic RAILWAY AGE 0

REVENUES AND EXPENSES OF RAILWAYS

(Dollar Agures are stated in thousands: i.e., with last three digits omitted)

MONTH OF SEPTEMBER AND NINE MONTHS OF CALENDAR YEAR 1958

na ju	391 342 3,531 7,757	2,001 196 570 11	831 755 943 227	541 5682 397 85 595	6,008 6,008 558 262 979	26 159 1,457 191 933	1,932 2,959 1,967 8,939	150 1541 152 1569 39 539	2,327 149 178 425 2,253	26,961 789 41 41	1,721 24,663 7,387 1,890 4,605	1,557 126 126 37
Net Rai operat incon	316 316 449 7653 719	143 1,155 260 25 46	829 375 -3 844 3 812 18	3,580 3 2,226 1 13,773 14 705		1,242	1,523 1,523 2,234 2,356 1856 18	1,281 1,395 1,395 1,395	1,457 2,016 81 579 3,224	3,333 23,742 115 742 404		4,009
Railway tax accruals	,											
	3,127 9,977	1,873 1,873 3,22 3,22 16 148	3,226 5,390 21,729 344	4,511 2,284 19,690 127 798	5,684 85,684 782 283	282 283 339 312 439 3,952	3,132 3,132 2,825 3,387 19,220	1,686 1,686 2,191 2,191 86 801	328 2,489 94 707 300 3,196	2,058 14,253 110 764 24 219	5,380 49,107 2,302 1,548 11,208	7,990 91 808 808 34 274
Net from raliway operation	1,413 1,298 4,582 16,662	5,081 6,74 674 388	1,758 10,684 39,550 794	11,466 11,562 37,277 2,279	1,519 12,915 1,661 352 918	532 93 546 546 3,692	6,250 6,260 4,785 25,434	3,617 3,819 3,819 1,501	1,888 5.014 137 1,319 11,401	6,225 47,563 2,197 2,197 816	10,686 63,199 180 1,056 3,720 25,080	2,349 16,178 16,216 847 47 315
iting 1957	90.5 666.0 777.7 82.1	88.1 78.0 91.8 83.3 84.9	97.9 76.1 73.9 72.4	77.2	556.3 566.3 566.3 566.3 566.3 566.3	866.9 86.3 86.7 86.7	882.5	83.0 880.5 880.0 75.0 693.2	81.2 85.7 76.8 76.8 1.1	778.88 8.88.8 6.3.9 6.7.9 6.7.9	84.9 82.3 86.2 71.4 4.5	7.00.000 9.11.00.00 7.01.00.4
Operating ratio 1958	0.000000000000000000000000000000000000	88.6 80.3 85.1 88.1 88.3 77.7	99.7 61.3 77.0 77.0	78.0 76.8 76.8 74.3	56.1 58.9 57.0 69.4	73.0 78.0 85.3 91.4 41.4	87.2 89.3 75.2 84.6 64.6	86.6 81.0 71.1 77.4 53.7	61.3 84.3 74.3 74.3 74.9	74.3 77.9 83.6 79.7 76.5	81.0 86.8 194.6 75.5	81.1 85.3 46.0 70.5 86.9
Total 1957	3,069 3,069 3,045 29,796 11,115	2,192 22,999 5,817 2,141	4,131 39,751 18,287 160,271 2,532	5,464 59,647 18,636 172,365 7,529	2,138 19,750 2,239 2,239 2,459	1,972 4,960 4,839 44,525	4,736 42,763 1,336 12,441 16,442	1,714 16,518 1,420 12,901 2,162	3,316 29,286 2,554 4,214 42,243	172,856 172,866 13,885 3,191	49,649 469,655 2,987 29,229 10,065 93,683	100,802 100,182 215 1,888 3,163
Total 1958	3,074 2,074 25,555 10,863 95,021	20,688 20,688 5,080 2,049	4,160 37,401 16,944 143,193 2,660	5,193 47,417 17,671 155,617 6,565	1,940 18,545 2,229 2,265 2,080	1,882 4,405 4,332 39,331	44,470 1,224 11,716 15,089	15,411 13,640 13,659 1,994	2,988 26,979 2,637 3,713 34,009	17,955 167,234 1,439 12,462 2,652	45,665 414,769 2,659 23,914 8,601	10,096 93,763 2,021 3,12
Trans-	1,662 1,343 11,724 6,061 54,490	9,988 2,631 7,99 735	2,210 20,526 7,883 65,660 1,081	2,320 8,460 76,918 3,225	1,056 9,907 840 117 772	102 953 245 1,947 2,689	25,485 665 6,627 7,389 68,675	7,316 5,676 88 764	1,458 12,441 1,009 1,756 16,541	9,126 82,770 6,131 1,434	26,691 240,256 1,006 9,410 4,623 40,941	53,058 53,058 188 180 1.613
Traffic	3,260	84 784 40 358 23 23	837 4,878 225 223	2,702 2,702 608 5,547 466 440	852 372 272 18	18 161 22 212 212 136 1,308	41 288 74 703 474 4,454	242 242 113 998 33 269	951 118 118 1,729	6,087 93 888 1	1,060 9,268 58 685 350 3,170	1,992
Expension of Expen	1,126 1,123 5,001	1,044 3,35 311 72	8822 7,541 82 82	2,679 2,679 8,590 31 276	106 954 106 21 196	2 45.0 8 65.0 8	1,514 94 881 919 9,546	757 78 801 15 15	1,238 3,7 3,35 2,319	1,072 9,538 78 705 111	2,514 32,597 387 2,715 4,634	4,428
Maint. Eq	536 536 8,467 2,681 20,318	8,256 1,218 1,218 344 343	8,232 4,059 36,065 64 461	13,232 4,327 41,178 1,877	4,330 288 70 691	383 1,665 999 9,671	1,086 9,547 287 2,888 4,183 40,129	3,667 3,667 2,565 30	581 6,295 66 748 871 9,221	4,250 39,298 2,791 578	10,361 97,063 1,014 9,506 22,233	2,198 19,876 12,113 149 56 520
Structures or	8,550 2,652 17,662	4,830 107 980 319	7,587 3,593 34,562 448	36,923 36,925 36,925 1,319	4,205 249 249 55 55 585	331 1,212 922 7,633	1,033 9,815 257 3,617 34,627	3,397 2,669 348	638 5,825 79 79 1,832 8,721	3,919 37,215 2,847 2,547 561	86,100 86,100 949 8,054 17,144	17,339 17,339 145 485 485
and Stru Deprec. and Retire- ments	246 2249 2249 1,974	4 4 4 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3,797 2,797 4	3,744 107	430 430 162 162	88468 222	88 884 23 238 277 2,588	283 283 292 292	48 437 437 89 89 792	2,780 23 263 113 168	1,178 10,897 43 387 156 1,673	2,513 2,513 228 228 6
Maint. Way	159 773 2,689 1,489 16,017	4.319 94 1,087 69 634	6,195 4,647 38,580 74 591	1,072 9,725 34,484 1,186	2,906 48 588 588 569	341 744 744 806 6,609	743 6,984 2,969 2,936 27,428	3,959 2,959 2,484 76 562	963 7,733 51 475 990 8,915	3,755 34,545 321 2,474 71 688	8,274 69,333 476 5,133 1,800 15,044	14,525 14,525 1908 44 410
Total 1958	96 777 302 2,353 1,618 12,723	3,636 82 766 56 632	6,468 3,973 28,824 96 683	8,348 3,076 27,280 1,032	2,397 58 600 58 58 58	32 306 94 607 607 553	7,48 7,116 150 1,670 2,562 24,143	3.416 2.97 2.560 2.9 2.9	5,958 60 612 527 6,746	3,243 32,187 2,92 2,037 61 597	5,439 52,621 457 3,890 1,356 11,647	1,357 13,259 89 1,657 45 355
c. misc.)	4,648 4,561 43,464 14,369 130,242	2,486 29,498 6,334 6,334 2,521	4,222 44,062 26,030 210,689 3,496	7,078 63,512 23,681 217,154 1,034 9,477	34,065 34,065 3,735 4,389	2,845 779 8,787 8,693	5,954 50,009 2,051 19,876 20,053 182,919	2,067 20,528 1,775 17,199 3,602	4, 286 36, 057 583 4, 491 5, 486 52, 064	24,392 225,138 1,733 16,559 4,734	58,471 559,199 3,629 33,889 14,686	13,547 122,920 2,876 463 3,615
Revenues Total (in	4,687 3,845 30,415 11,693	25,769 25,769 5,754 2,437	4,174 39,159 27,628 182,743 3,484	6,659 58,980 22,227 192,894 1,178 8,844	3,459 31,459 3,866 2,998	2,413 6,931 6,031 6,025 43,025	6.014 50.991 2.063 17.976 19.874 165,244	1,893 19,028 2,022 16,878 414 3,406	4,876 31,993 420 3,550 5,032 45,411	24,180 214,737 1,722 14,659 3,468	\$6,351 477,968 22,833 12,858 112,321	109,942 109,942 2,868 3,093
Operating Rev Tot	40 . 686.4	3,642	232 1,936 699 7,584	2,417 1,754 15,712	9	2,038	4,692 39,601 380 6,545	33-3	617	7,946	6,000 57,503 37 363 113 1,236	37,515
Freigh		1,921 20,066 569 4,880 270 2,387	3,559 34,639 25,868 162,467 3,356	5,988 18,577 158,542 7,473	3,054 27,813 3,854 2,479	2,427 4,8825 38,4513 38,427	1,145 9,606 1,921 16,658 17,863	1,691 17,190 1,935 16,269 337 3,154	4,539 29,515 416 3,524 4,422 40,029	20,937 187,025 1,551 13,089 3,461	41,740 353,569 2,650 21,483 11,705 97,434	58,785 58,285 369 2,676 2,727
Average mileage operated during periods	175 175 236 2,267 2,367	871 871 321 332 332	951 8,294 8,277 219	56.69 7857 7857 7857 7857 7858 7858 7858	891 891 327 327 160 160	96 177 1,130	350 350 746 746 5,697	1,391	3,222 3,222 172 172 2,919 3,919	9,514 9,549 541 177	10,521 10,521 2,179 2,179	1,762 1,762 1,762 21 21 106 114
	Sept. 9 mos. 9 mos. 9 sept. 9 mos.	Sept. 9 mos. 9 mos. 9 mos. 9 mos.	Sept.	Sept. 9 mos. 9 mos. 9 mos.	Sept. 9 mos. Sept. 9 mos.	Sept. 9 mos. 9 mos. 9 mos.	Sept. 9 mos. 9 mos. Sept. 9 mos.	Sept. 9 mos. Sept. 9 mos.	Sept. 9 mos. 9 mos. 9 mos.	Sept. 9 mos. 9 mos. Sept. 9 mos.	Sept. 9 mos. 9 mos. Sept. 9 mos.	Sept. 9 mos. 9 mos. 7 mos. 9 mos.
Name of Road	Duluth, Winnipeg & Pacific. Elgin, Joliet & Eastern. Erie	Florida East Coast Georgia Raifroad Georgia & Florida	Grand Trunk Western 9 Great Northern 9 Green Bay & Western 9	Guif Mobile & Ohio Illinois Central	Kansas Olty Southern Kansas, Oklahoma & Guif Lake Superior & Ishpeming.	Lehigh & Hudson River Lehigh & New England Lehigh Valley	Long Island Louisiana & Arkansas Louisville & Nashville	Maine Central Minneapolis & St. Louis Minn, Northfield & Southern	Minn., St. Paul & S. S. Marle Missouri-Illinois Missouri-Kansas-Texas Lines	Missouri Pacific. Monon. Monongaheta.	New York Central Pittaburgh & Lake Erie New York, Chicago & St. Louis- 9	New York, New Haven & Hartfords New York Connecting

(Continued on page 34)

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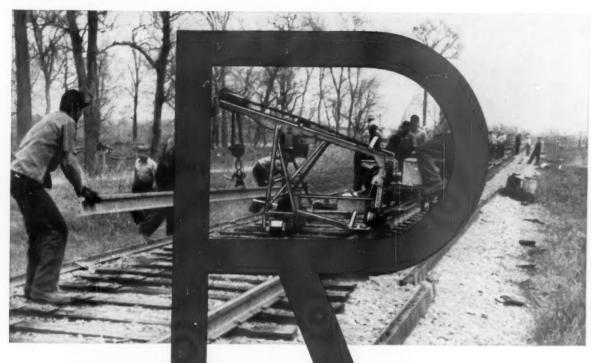


Page 0 ervic S RAILWAY AGE ٥

REVENUES AND EXPENSES OF RAILWAYS

(Dollar figures are stated in thousands; i.e., with last three digits omitted)
MONTH OF SEPTEMBER AND NINE MONTHS OF CALENDAR YEAR 1958

							-															
Name of Read		Average mileage operated during	° l	Operating	Revenues Total (inc.	. miec.)	Maint.	of Way	and Struct Deprec, and Retire-	Total	Operating sint. Equi Total	Expense pronent Deorec. and Retire-	Trans	Trans-	Total	Total	Operation 1948	rating	Net from railway	Railway	Net Ra	liway iting ime
Norfolk & Western Norfolk Southern Northern Pacific	Sept. Sept. Mos. Sept. mos.	22.138 6.604 6.828 6.828	17.861 142.039 949 6.688 17.148		18,915 151,724 6,816 18,715 131,405	21,022 192,498 937 8,899 17,086 138,669	2,055 19,647 244 1,686 17,699		2,968 2,968 142 2,511	29,122 123 123 1,189 22,486 24,380	37,483 11,193 12,740 25,54	1,026 9,293 299 730 6,438	8,192 49 49 3,592	45,500 1 2,264 6,228 51,282	10,504 03,800 763 5,992 112,195 105,228		55.55 68.65 887.9 880.0 89.0	4 "	44 60	4,162 14,996 279 479 3,518 16,355 12	5,225 4 17,561 33 80 62 62 2,860 2 12,271 12	4.366 33,295 77 559 2,389
Northwestera Pacific.	Sept. 9 mos. 9 mos. 9 mos. 9 mos.	328 329 329 9,940 9,940	1,182 8,889 973 8,289 57,433 466,457	28 28 8,164 80,035	1,300 9,013 1,135 9,506 74,340 617,953	1,038 9,440 1,151 11,273 84,263 755,226	2,246 1,499 7,363 68,344	2,191 1,191 1,714 16,315 87,235	_		102 859 65 65 17,520 155,789	23 4 2,759 26,756						68.3 84.7 73.6 83.6 83.9 81.9	2,814 363 1,723 5,602 1,631 46,		119 424 76 293 4,001 318 39	532 554 588 702
PennReading Seashore Lines Fledmont & Northere Pittsburgh & West Virginia	Sept. 9 mos. 9 mos. 9 mos. 9 mos.	358 358 126 126 132	616 4,954 451 3,635 5,851 5,851	1,678	6,233 3,728 8,906 5,906	3.876 3.876 7.612 7.612	1,846 437 1,314	1,966 48 411 1,112	22222	1,095 1,095 285 1,330		241 241 81 418	11 88 28 254 72 688	4,391 736 217 1,959	7,827 234 1,978 625 5,703	8,166 1 227 1,982 663 5,476	13.2 525.6 53.0 53.1 53.1 53.1 55.6 7	113.3 —1, 53.1 1, 74.5 1,	1,594 1,747 1,747 203 Gr.	616 163 163 Cr.35 Cr.106		3,295 3,295 558 1,198
Reading. Richmond, Fred. & Potomac.	Sept. Sept. Sept. Sept. 9 mos.	1,303 1,303 118 118 391 391	7.768 68.676 11.069 3.199	513 4,823 3,946	8,830 78,716 11,751 18,145 3,423	10,898 103,403 2,025 20,496 447 3,871	1,629 10,864 1,470 82 653	1,754 14,258 2,101 2,101 774		-	2,231 19,619 2,949 2,949 843	4,427 6,427 605 18 158		3,588 36,275 6,516 1,409	6,677 67,305 12,147 3,091	8,933 82,175 1,403 13,519 3,318	75.6 669.6 669.6 981.6 981.6	2, 69,3 11, 66,0 86,0 85,7	2,153 11,411 533 5,498 3,76 332		1,127 6,065 12,634 2,634 42 40	371 058 280 404 47 195
St. Louis-San Francisco. St. Louis-San Fran. & Texas. St. Louis Southwestern Lines.	Sept. Sept. Sept. Sept. Sept.	4,577 4,589 143 1,556 1,556	8,954 74,356 3,026 5,153 43,115	2,388.4	9.964 82.946 3.269 5.269 44.087	9,926 96,114 3,362 5,369 49,374	11,379 11,796 394 726 6,236	1,316 12,447 30 358 665 6,327	1,441 12 72 659	14,273 14,273 22 219 702 6,171	15,094 15,094 270 756 6,761	5,492 1 1 185 1,654		3,714 34,062 141 1,331 1,651 14,622	7,790 68,495 237 2,266 3,445 30,324	73,309 73,309 2,474 3,367 31,875	78.2 82.6 66.8 66.3 65.6	79.6 81.4 14.6 53.4 13.6 1.6 64.6 13.4	2,174 4,451 5, 1,003 1,811 3,763 5,	,550 40 315 776	1,335 8,006 169 169 938 6,494	8,373 29 163 746 7,064
Savannah & Atlanta Seaboard Air Line Southern Railway	Sept.	144 4,146 4,127 6,273	295 10,396 95,965 20,180 164,283	9,793 8,741 8,741	2,835 114,025 114,145 126,696 186,997	3.012 12.296 123.382 20.328	60 529 16,289 3,361 27,687	107 652 17,286 22,939 27,543	1,930 1,930 2,743		56 22,496 22,924 3,851 36,730	174 707 6,249 945 8,470	16 143 4,001 4,001 4,356		246 2,296 9,520 91,554 15,886 38,947	2,305 9,458 92,864 15,539 144,390	79.2	22, 76,98 776,98 775,33 72,54 72,54 6,6,6	65 22,591 6,811 6,811 88,950 18,	216 933 7.982 1.982 18,065	37 1,514 13,341 16,341 16,700 26,700	33 452 1,696 16,201 3,253 29,546
Alabama Great Southern	Sept. 9 mos. 9 mos. 9 mos. 9 mos.	328 328 337 337 397	10.057 24.682 24.083 5,860	412 886 326 396	11,313 26,695 6,856 6,856	13,348 13,761 3,200 31,530 7,000	2,213 5,353 1,469	249 2,469 5,653 5,653 1,850		2,728 2,728 6,969 717	2,978 2,978 718 6,227 751	727 219 1,915 95	42 371 83 749 21	4,233 4,233 7,796 7,796 2,416	10,504 2,422 21,726 5,273	11,200 22,389 22,029 5,891	87.2 96.4 88.1 78.8 778.8 9	889.1 882.5 74.6 669.9 84.2 1,	1,111 1,111 1,228 4,970 2, 1,581	92 256 453 38 346	3,562 3,562 3,562	1,213 5,884 -178
New Orleans & Northeastern Southern Pacific Texas & New Orleans	Sept.	203 203 8,083 4,218 4,275	854 7,671 42,524 3;6,362 92,146	26. 301 22.007 22,776	8,591 47,169 780,358 11,349	1,007 9,420 44,345 394,085 11,716 104,978	175 1,636 5,899 46,943 2,197 17,024	1,798 5,535 49,112 1,871	1,677 5,170 5,170 2,119	193 1,776 9,997 83,383 1,643	149 1,464 9,658 87,835 13,500	21,549 21,549 11,657	255 222 864 7,271 1,259 2,301	251 2,186 17,553 4,948 37,483	6,477 6,414 36,414 36,154 76,464	6,345 35,944 322,866 8,576 78,065	447.77	67.6 881.8 881.8 74.4 74.4 74.4 74.4 74.4 74.4	235 2114 10.754 74.264 33.2633 24.261 9,	1,143 4,839 33,976 9,366	5,033 34,686 4,849	1,138 3,811 33,106 6,350
Spokane International. Spokane, Portland & Seattle.	Sept. Sept. Sept. Sept. Sept.	150 150 936 941 286 286	2,887 2,886 21,856 21,855 2,873	757	2,968 3,109 24,120 3,010	2,855 2,784 23,961 3,484	3,925 3,925 3,925 372	3,736 651	6 88 38 38 38 38 38 38 38 38 38 38 38 38	291 4,087 4,44	31 282 438 3,973 575	16 95 1,128 1,154 200	56 33 306 19 165	82 742 1,135 8,923 1,026	1,721 2,191 18,325 2,254 2,254	1,761 1,983 17,965 2,757	48.9 58.0 70.5 70.4 74.9	71:35.4 71:35.4 76:13 79:13 79:13	1,248 917 5,795 2,	487 527 367 207	65 248 348 466 196	65 560 444 2,735 110
Texas & Pacific. Texas Mexican. Toledo, Peoria & Western.	Sept. 9 mos. 9 mos. Sept. 9 mos.	1,831 1,831 161 161 239	4,994 45,647 2,687 5,389	2,713	53,856 2,898 2,898 5,853 5,539	5,966 58,985 3,824 645 5,729	774 7,328 528 85 85 689	8,565 55 491 115 703	85 85 85 85 85 85 85 85 85 85 85 85 85 8	1,061 9,540 303 303 50 482	9,916 9,916 283 283 56 495	2,467	1,765 1,765 199 51 448		43,459 43,459 1,907 3,378	4,644 45,713 205 1,818 413 3,483	881.7 881.2 883.6 66.9 66.9	777.8 56.2 66.8 60.8 2,	1,073 10,031 3,46 944 285 2,165	3,673 3,673 395 116 868	2,699 231 77 726	4,440 4,440 254 256 672
Union Pacific Virginian. Wabash	Sept. 9 mos. 9 mos. 9 mos. 9 mos.	9,748 9,751 668 668 2,392 2,392	42,142 318,783 3,986 35,279 7,911	21,595	47,503 366,454 4,140 36,854 9,219 81,700	45,088 ,884,389 5,361 49,449 10,138 93,000	5,844 48,931 4,051 1,087 9,756	5,376 51,112 604 5,109 1,339 10,837	5,994 622 879 862 862	8,089 68,160 536 6,026 1,432 12,964	7,058 71,310 6,271 1,513 13,623	1,886 16,871 286 2,535 4,036	1,096 10,617 61 528 333 3,130	15,691 127,229 7,375 4,390 38,239	32,962 274,845 1,970 19,110 7,683 68,638	31,094 286,153 2,304 21,742 8,246 72,725	69.4 775.0 51.9 83.3	69.0 43.0 44.0 17.3 78.3 13.1 13.1 13.1 13.1 13.1 13.1 13.1 1	14,541 6, 2,176 11, 17,744 8, 1,535 4,	6,661 18,504 2,174 8,982 4,277	5,639 1,230 10,032 11,77 3,177	4,684 27,700 1,615 15,113 865 7,361
Ann Arbor. Western Maryland. Western Pacific.	Sept.	294 294 844 845 1,192	6,363 3,864 31,460 4,803 35,234	1,853	738 6,519 4,053 33,170 5,102 38,080	806 7,186 4,665 41,737 4,742 41,887	89 728 534 4,647 5,145	863 863 863 888 6,668	39.4 311. 386. 718	1,384 7,384 6,789 6,993	171 1,493 813 7,256 634 5,830	2,497 2,497 216 1,943	31 288 113 1,985 1,906	3.175 1.257 11.678 13.579	636 25,786 25,559 3,262 29,262	696 6,110 3,119 3,636 30,865	886.1 770.5 62.8 76.7	73.7 73.7 88.5 73.7 8 1.7	103 733 612 900 878	425 602 777 907	44 184 996 968 968 5,248	66 369 1,118 9,253 9,253 5,613
Wisconsin Central	Sept.	1,031	22,696	327	23,885	3,062 26,160	3,042	4,246	389	3,955	4,158	936	835	1,174	2,101	2,168	81.4	70.8	801	1,633	1,424	1,884



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VELOCITY POWER RAIL PUNCH

Takes only an instant to punch clean, smooth hole for track bolts or rail bonds. Needs no electricity, compressed air, hydraulic power; operates from small blank cartridge; no open flash or recoil. Only one major moving part, the piston.

MECO POWER RAIL LAYER

Makes new records in Time Saving! This machine greatly speeds up the laying of rails of every weight and length. Makes new records in Economy! The Meco Power Rail Layer is inexpensively operated by a standard 4-cycle power unit, usually with a machine crew of 3 or 4 men.

A Meco easily sets in the rails for a large gang of 100 men or more. And—the first cost is only a fraction of that for other rail laying machines.







MECO RAIL AND FLANGE LUBRICATOR

Doubles to quadruples curve rail and loco-motive wheel flange life, by reducing friction between rails and wheel flanges on curves. Also makes possible higher speeds with greater safety.



MACK REVERSIBLE SWITCH POINT PROTECTOR

Prolongs the life of switch rails about 4 times; then is reversed and again extends the switch rail life for another similar period.



BRUSH CUTTER

CUTTER
Cuts right-of-way maintenance costs. One operator with the new, light-weight, Southworth can do the work of eight men using brush hooks or scythes. Extreme maneuverability. "work horse" power, light-weight are important advantages.

Match the conditions on your road with these Anaconda Control Cables



ANACONDA TYPE ANW-RUBBER-INSULATED CONTROL CABLE. Peak reliability, outstanding heat resistance. Cable is also highly resistant to moisture, acids, alkalies, other chemicals. Unusual overload capacity and long-aging characteristics. Individual conductor covering and over-all jacket of neoprene.



ANACONDA THERMOPLASTIC CONTROL CABLE. Multiple-use: aerially, in conduit, underground in ducts, direct burial in earth. Available with polyethylene (600 or 1000 volts) or Densheath* vinyl resin (600 volts) insulation and Densheath over-all jacket. Densheath jackets over polyethylene-insulated conductors on request.



ANACONDA BUTYL-INSULATED CONTROL CABLE. Ozone-resistant control cable. Individual conductor covering and over-all jacket of neoprene provide maximum insurance against moisture, mechanical injury. High-quality product with outstanding performance record.



ANACONDA TYPE PND CONTROL CABLE. For general-purpose use where space is limited. Allows installation of a 12-conductor cable in conduit carrying a 6 or 7. Individual conductor covering of abrasion-, oil-, gasoline-resistant nylon. Over-all Densheath jacket.

APPLICATION CHART FOR ANACONDA CONTROL CABLE

TYPE AND VOLTAGE RATING	CHARACTERISTICS	GENERAL APPLICATIONS	INSTALLATION METHODS
RUBBER—Insulated Control	Cables		
Rubber-Insulated 600-Volts	Excellent moisture, heat resistance. Longaging.	General-purpose and station	Installed aerially, in conduit, undergroun
Ozone-Resistant Rubber— Insulated 600-Volts	Ozone-resistant. Proved moisture resistance, heat stability. Long-aging.	control requirements.	in ducts—or buried directly in earth.
THERMOPLASTIC-Insulate	d Control Cables		
Polyethylene-Insulated 600- Volts	Excellent moisture and chemical resist- ance. Highly resistant to electroendosmosis. Long-lived.	General-purpose control re-	Installed aerially, in conduit, undergroun
DENSHEATH®-Insulated 600-Volts	Thermoplastic cable. Excellent moisture and chemical resistance. Long-aging.	quirements.	in ducts—or buried directly in earth.
Anaconda Type PND* Poly- ethylene-insulated-Nylon Con- ductor Cover 600-Volts**	Dependable chemical and abrasion resistance, Small diameter, Long-aging.	General-purpose control re- quirements where space is a limiting factor.	Installed aerially, in conduit or under ground in ducts.
Polyethylene-Insulated 1000- Valts	Peak moisture and chemical resistance. Heavy insulation thickness, Long-aging.	Station control requirements.	Installed aerially, in conduit, underground in ducts—or buried directly in earth.

For full facts on any of Anaconda's complete line of control cables — including cables engineered for more specialized control requirements — see the Man from Anaconda. A comprehensive technical booklet on Anaconda Control Cables is yours for the asking. Write: Anaconda Wire & Cable Company, 25 Broadway, New York 4, N. Y.



SEE THE MAN FROM ANACONDA FOR CONTROL CABLE

MARKET OUTLOOK at a glance

Carloadings Drop 12.9% During Holiday Week

Loading of revenue freight in the holiday week ended Nov. 29 totaled 539,191 cars, the Association of American Railroads announced on Dec. 4. This was a decrease of 80,159 cars, or 12.9%, compared with the previous week; a decrease of 14,531 cars, or 2.6%, compared with the corresponding week last year; and a decrease of 212,955 cars, or 28.3%, compared with the equivalent 1956 week.

Loadings of revenue freight for the week ended November 22 totaled 619,350 cars; the summary, compiled by the Car Service Division, AAR, follows:

LOHOWS.			
REVENUE I	REIGHT C		
District Eastern Allegheny Pocahontas Southern Northwestern	1958 94,433 113,928 54,079 117,943 66,201	1957 99,940 123,646 56,212 111,829 71,578 122,942	1956 103,478 129,783 52,574 111,135 91,665 112,995
Central Western	124,492 49,274	46,616	48,990
Total Western Districts	239,967	241,136	253,650
Total All Roads	619,350	632,763	650,620
Commodities: Grain and grain products Livestock Coal Coke Forest Products Ore Merchandise I.c.i. Miscellaneous	52,924 6,199 122,175 8,798 37,477 27,599 44,326 319,852	50,650 8,207 129,934 9,154 34,026 28,115 49,952 322,725	41,595 8,663 127,760 12,685 35,784 47,233 49,590 327,310
November 22 November 15 November 8 November 1 October 25	619,350 643,795 658,086 674,477 674,264	632,763 647,297 675,579 713,994 703,688	650,620 763,898 772,850 800,367 816,803

Cumulative total, 47 weeks ...27,481,115 32,725,538 34,451,809

PIGGYBACK CARLOADINGS.—

U. S. piggyback loadings for the week ended Nov. 22 totaled 6,748 cars, compared with 4,926 for the corresponding 1957 week. Loadings for 1958 up to Nov. 22 totaled 248,438 cars, compared with 228,443 for the corresponding period of 1957.

IN CANADA.—Carloadings for the seven-day period ended November 14 totaled 73,023 cars, compared with 77,921 cars for the previous seven-day period, according to the Dominion Bureau of Statistics.

	Cars 8	Total Cars Rec'd from Connections
Totals for Canada: November 14, 1958 . November 14, 1957 .	. 73,023 . 78,187	26,871 28,869
Cumulative Totals: November 14, 1958 . November 14, 1957 .	. 3,329,945 . 3,589,741	1,230,919

New Equipment

PASSENGER-TRAIN CARS

- New York Transit Authority.—Will order 200 new cars for the BMT subway line in 1959, subject to approval by the Board of Estimate. Meanwhile, the authority has signed a contract with the American Car and Foundry Division, ACF Industries, for 110 new IRT subway cars costing \$11,726,000. A feature of the IRT cars will be easy-to-maintain seats made of molded Fiberglas.
- ► Union Pacific.—Ordered five additional coaches from St. Louis Car Co. at an estimated cost of more than \$700,000. This brings the total UP order to 35 cars, costing a total of approximately \$5,600,000 (RA, Aug. 18, p. 35).

FREIGHT-TRAIN CARS

- ► Minneapolis & St. Louis.—Plans to equip 15 flatcars with bulkheads at Marshalltown shops in 1959.
- Northern Pacific.—Will spend about \$12,000,000 on 1959 freight car acquisition program. NP will build (at Brainard, Minn., shops) 400 40-ft box cars and 100 50-ft insulated box cars with damage prevention loading devices, plus 400 50-ft box cars and another 100 50-ft loader-equipped insulated box cars not completed this year. Fifty mechanical refrigerator cars will be purchased from an outside carbuilder. An additional 500 freight cars may be built later in 1959 (at a cost of \$4,000,000) if business conditions warrant.

SPECIAL

▶ Brazilian Railways.—Ordered air brake equipment costing \$4,300,000 from the Air Brake Division, Westinghouse Air Brake Co. Order includes equipment for 80 passenger cars, 70 locomotives and 10,300 freight cars. Delivery will start this month.

New Facilities

- ► Chicago Transit Authority.—Recommended provision for \$31,500,000 of public funds in the 1959-61 biennium to finance planning and initial construction stages of top-priority CTA extension and improvement projects. Major priority work (in a 20-year program) includes construction of rapid transit lines in the median strip of two expressways and installation of signal and train control systems in unsignaled areas.
- ► Grand Trunk Western.—Will convert steam locomotive shops to a diesel facility at Battle Creek, Mich., at an estimated cost of \$1,200,000. The project will provide heavy repair shop for diesels, plus facilities for terminal diesel servicing and repairs.
- ► Great Northern.—Plans to add 171 miles to its CTC system in 1959. The new installation, in Minnesota and Montana, will bring GN's CTC total to 542 miles.
- ► Louisville & Nashville.—Authorized installation of centralized traffic control on 125 miles of track between Mobile, Ala., and New Orleans, La. Estimated cost: \$2,600,000. Project will involve construction of nine new passing tracks to accommodate up to 200 cars each. Work will begin in March 1959, will be completed late in 1960.

D

One Car for Commuters and Cargo?

Connect the major commuter roads, advises Northwestern University's Berge, then run fast merchandise trains during off-peak hours—using the same cars for commuters, package freight and mail-express.

► The Story at a Glance: Commuter cars carrying passengers during morning and evening rush hours. The same commuter cars carrying merchandise, mail and express during daylight off-peak hours and at night. That's part of the latest proposal tossed into the "how-do-we-save-the-commuter-business" debate. Its author: Stanley Berge, professor of transportation at Northwestern University.

Mr. Berge's hybrid cars-equipped with collapsible seats and removable cargo fasteners-would operate over a coordinated network of suburban rail lines, the major ones (eventually) electrified. He sees the switch to dual-purpose cars as "probably the only way to put railroad commuter equipment on a sound financial

Connecting the city's principal commuter roads and operating them, off-peak, for fast, through-route merchandise service is his answer to the problem of commuter facility and equipment utilization. Public aid (not public subsidy) would finance the capital expenditures needed to put such a system in operation.

Like many a railroad man, Professor Stanley Berge pinpoints poor utilization of plant as the biggest barrier to a profitable commuter service: How can the railroads better utilize an expensive plant which normally stands idle except for two

daily peak periods?

His solution wraps up an old idea with a new twist-link the major suburban lines into a coordinated network, then run high-speed merchandise-mail-express trains over the system during the midday and nighttime commuter lull. The railroads would be electrified. Their equipment would be dual-purpose cars, "with comfortable but collapsible light-weight seats and removable cargo fastening devices for containers and other non-passenger payloads."

The Northwestern transportation professor would revamp suburban operations (applied to Chicago conditions) this way:

- · Decide which rail lines are the really strategic ones. Then forge these lines into a coordinated system of high-speed routes by building essential track connections. Two new lines-one linking Union Station with the C&NW Station, the other joining the C&NW with the IC and the CSS&SB-would do the job.
- · Make the transportation service over the resulting through routes "invincible by applying the most modern operating techniques and automatic remote controls applicable to high-speed electric railways."

• Design the system "to utilize its plant, not 20 hours a week, but 24 hours a day. This means we must arrange to operate fast metropolitan merchandise, mail and express trains as well as commuter trains over these high-speed through routes. By combining the revenues from merchandise, mail and express with commuter and other passenger revenues, I think we can forever solve the economic riddle of railroad commuter service . .

• Use dual-purpose cars for both passenger and freight transportation. The basic idea, according to Mr. Berge, "has long been a feature of military transport aircraft and . . . has been successfully employed by some of the European airlines. Just as it will doubtless become an economic necessity for our airlines to develop dual-purpose jet transport aircraft-to carry passengers by day and packages by night-just so, I believe, it is imperative for us to design and build dual-purpose railroad commuter cars . . . Let the cars carry commuters when commuters will travel, and move mail and packages during non-commuter hours.'

Mr. Berge's proposal to connect Chicago's suburban roads would link four of the five biggest commuter operations-C&NW, IC, Milwaukee and Burlington. It would also eliminate stub-end terminal operations involving all four roads at present. Rock Island would become a part of the system if its commuter service should be transferred into either Union or IC terminals in Chicago's proposed railroad terminal consolidation.

Electrification of suburban lines would begin with the North Western's Chicago-Milwaukee tracks. A three-mile, doubletracked tunnel would link the C&NW with the already-electrified IC and CSS&SB

Financing of these improvements would be done publicly-and Mr. Berge makes a definite distinction between public aid and public subsidy. Long term loans, leases or other contractual arrangements would be employed "instead of public handouts, to assist in the development of such major improvements . . . as hold promise of being clearly able to support themselves after an initial developmental period." Mr. Berge also recommends tax relief for metropolitan rail lines, to put them on equal footing with tax-free metropolitan highways and airports.

His proposals for commuter relief coincide only in part with those of the five major commuter roads. The carriers also want tax relief-but they've made no plea for public aid in financing improvements. Instead, the roads have proposed (to the Illinois Mass Transportation Commission)

that regulation be eased.

In N. J.: A \$190 Million Question

Hope for an early solution to the New Jersey-New York City commuter problem faded last week as the New Jersey Assembly ended public hearings, seemingly without agreeing on a course of action.

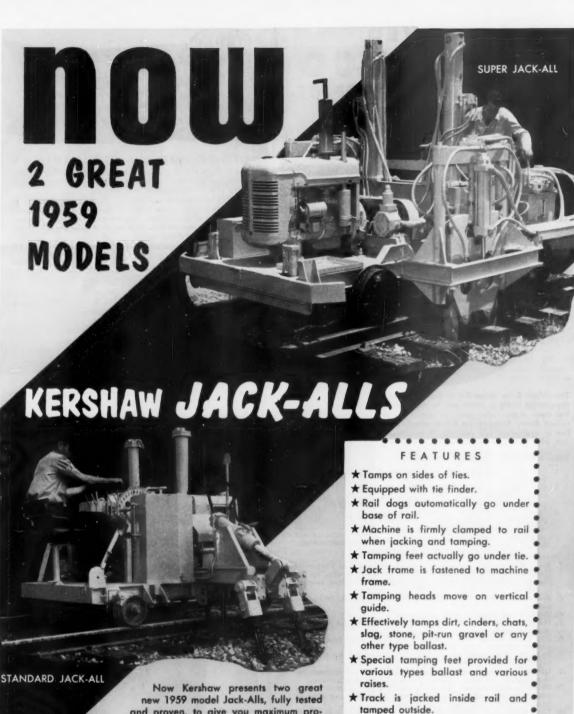
Two possible solutions—one establishing a bi-state transit district, the other throwing the problem into the lap of the existing bi-state Port of New Authority-were in bill form, but neither seemed likely to pass (RA, Dec. 1, p. 40).

A new note in the hearings was discussion of physical details of a plan to use the Hudson & Manhattan Railroad as the major portion of a loop connecting N.J. commuter lines with New York subways. This plan, outlined last winter but not in detail, was presented to the Assembly committee by H&M Trustee H. T. Stichman. It differs from the Metropolitan Rapid Transit Commission loop proposal by using H&M facilities and in cost: \$500,000,000 for the MRTC plan, \$190,-000,000 for the Stichman proposal.

Mr. Stichman's proposal involves build-

ing a new Hudson River tunnel to link mid-town Manhattan with Weehawken, N. J.; new tracks connecting H&M tubes and New York subways in Manhattan; additional trackage in New Jersey to connect the H&M with the New York Central's West Shore line at Weehawken and the Jersey Central Terminal at Communipaw; and building rail facilities over Bayonne Bridge to give the Staten Island Rapid Transit a direct rail link with Manhattan.

Operationally Mr. Stichman's proposal involves running tube trains over New York City's Lexington and Sixth Avenue subways from existing H&M terminals, then through the new tunnel to Weehawken and over a new route to the H&M tracks at Journal Square. With a spur to the Jersey Central and the existing trackage to Pennsylvania Station in Newark, all of New Jersey's passenger railroads would then have direct rail connections to Manhattan, which would make possible discontinuance of heavily-losing ferries.



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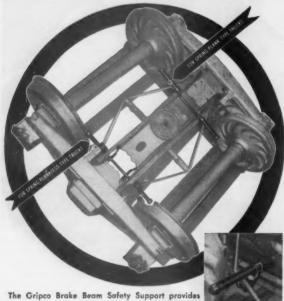
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 Holds brake shoe in proper position in relation to the periphery of the wheel.
- of the wheel.

 6. The brake release feature pulls brake shoes away from wheel contact instantly when brakes are released.

 7. Prevents unnecessary wheel and shoe wear caused by dragging
- brake shoes.

 8. GRIPCO supports can be removed and reapplied without removing nuts; therefore nuts are furnished in proper position.

 9. Brake beams, rods, and levers are held in position under spring tension thus reducing false movements, chattering and wear of hangers, hanger pins and brake heads.

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December 8, 1958 RAILWAY AGE



AAR



John W. Hawthorne ACL





J. A. Austin

People in the News

ASSOCIATION OF AMERICAN RAILROADS.-Raiph ASSOCIATION OF AMERICAN RAILROADS.—Rolph E. Clork, manager, Closed Car Section, Car Service Division, Washington, D.C., appointed vice chairman of the division, succeeding Coleb R. Megee, retired. E. Poul Miller, manager of port traffic and district manager at New York, succeeds Mr. Clark. Charles A. Lauby, district manager, Boston, Mass., transferred to New York. John F. Reilly, assistant to vice chairman, Washington, succeeds Mr. Lauby at Boston.

ATLANTIC COAST LINE.-John W. Hawthorne, general superintendent motive power and equipment, Wilmington, N. C., appointed chief mechanical officer there. W. J. Turner appointed assistant general superintendent, Southern divi-sion, Jacksonville, Fla. Abolished position of superintendent transportation, Southern division, formerly held by Mr. Turner.

N. 5. DeMuth appointed assistant general freight agent, Wilmington.

MISSOURI PACIFIC-M. L. Smith, general superintendent of transportation, St. Louis, appointed general manager, Gulf district, Palestine, Tex., succeeding Vernon A. Gordon, promoted (RA. Dec. 1, p. 41). J. A. Austin, assistant chief personnel officer, St. Louis, named to succeed Mr. Smith, and in turn is replaced by G. W. Johnstein, M. Gregoria, M. Gordon, S. Louis, named to succeed Mr. Smith, and in turn is replaced by G. W. Johnstein, M. Gregoria, M. G. Louis, named to succeed Mr. Smith, and in turn is replaced by G. W. Johnstein, M. G. Louis, named to succeed Mr. Smith, and in turn is replaced by G. W. Johnstein, M. G. Louis, and M. G. Louis, named to succeed Mr. Smith, and in turn is replaced by G. W. Johnstein, M. G. Louis, named to succeed Mr. Smith, and in turn is replaced by G. W. Johnstein, M. G. Louis, named to succeed Mr. Smith, and in turn is replaced by G. W. Johnstein, M. G. Louis, named to succeed Mr. Smith, and in turn is replaced by G. W. Johnstein, M. G. Louis, named to succeed Mr. Smith, and M. G. Louis, named to succeed Mr. Smith, and Mr. S son. K. M. Converse, trainmaster, Osawatomie, Kan., named assistant superintendent, Alexan-Adn., named assistant supermitendent, Alexandria Terminal, Alexandria, La., replacing J. E. Horrell, retired. Mr. Converse's successor is W. B. Noedhom, trainmaster, Chester, Cairo, Cape Girardeau and Sparta subdivisions, Chester, Ill., who in turn is succeeded by R. L. Coldwell, trainmaster, east and west, Benton and Mt. Vernon

subdivisions, Chester. J. W. Dunlap transferred from the Little Rock Terminal, North Little from the Little Rock Terminal, North Little Rock, Ark., to replace Mr. Caldwell, and in turn is replaced by L. J. Brupbacher, assistant trainmaster, Kingsville, Tex.

MONON .- Korl A. Voth, freight traffic manager, Chicago, appointed general traffic manager.

One Klein appointed assistant to freight traffic manager (sales), Chicago.

Howard C. Greer, financial vice president and member of the board, Chicago, retired. He will continue as financial consultant and assistant to president until October 1959.

TEXAS & PACIFIC.-Claude R. Wilson, Jr., appointed attorney, Dallas, Tex.

WABASH .- D. C. Pate appointed assistant freight traffic manager, St. Louis, to succeed George W. Young, who retired Oct. 1.

WESTERN MARYLAND.—George K. Knox appointed traffic analyst, Baltimore. Rudolph G. Stiemke, assistant freight traffic manager, Baltimore, retired Nov. I. Albert F. Forster, general freight agent, succeeds Mr. Stiemke. W. Cecil Sinners appointed general freight agent; Joseph W. Roberts, Jr., named assistant general freight agent and Corl N. Collins appointed assistant to general freight agent. general freight agent.

OBITUARY

Clinton D. Sipo, 78, retired general manager and assistant to president, Alton, died Nov. 28.

named eastern manager there. Albert G. Maier, sales engineer, New York, has been appointed

Daniel P. Murphy, manager of ordnance and

industrial sales for the Symington Wayne Corporation (formerly Symington-Gould Corporation), Depew, N. Y. has retired from active duty after 42 years in the steel castings industry. Duties formerly assigned to Mr. Murphy are now being handled by James S. Thompson, Jr.

Arthur J. Doyle, assistant vice president of the Youngstown Steel Door Company, Cleveland, has been elected a vice president.

North American Supply Company, Cleveland, Ohio, has been appointed regional sales repre-sentative for the Archer-Daniels-Midland Freight Liner System for upgrading railroad freight and covered hopper cars.

John H. Ingulls has been appointed a field service engineer in the Boston division of A. M. Byers Company.

Elmer Lehmkuhl has been appointed sales manager, Eastern division, Arcair Company. Martin ager, Eastern division, Arctiv Company, Martin Boyer is the new sales promotion and advertising manager. Durward B. Vought has been named field representative in Virginia, Kentucky and Southern West Virginia, in addition to other Southern states which comprise his

OBITUARY

Charles F. Kettering, 82, retired vice president and general manager of research, General Motors Corporation, died Nov. 25 in his home at Day-

Organizations



William H. Ott



George O. Griffith

National Industrial Traffic League Elects New Officers

William H. Ott, of Chicago, general traffic manager of Kraft Foods, has been elected president of the National Industrial Traffic League. He succeeds Grant Arnold, general traffic manager of E. J. Lavino & Co., Philadelphia. George O. Griffith, director of traffic for American Home Products Corporation, New York, has been elected vice-president, succeeding Mr. Ott in that capacity.

Regional vice-presidents elected at the League's S1st annual meeting in New York last month are:

L. F. Van Kleeck, traffic manager, Brown Company, Berlin, N. H.; R. A. Cooke, manager, Traffic department, American Newspaper Publishers Association, New York; O. H. Weaver, traffic manager, Happyvale Flour Mills, Griffin, Ga.; Theron Godbold, general traffic manager, Farfic manager, Edgle-Picher Company, River Rouge, Mich.; Hugo Waninger, vice-president-traffic, Anheuser-Busch, Inc., St. Lauis; B. C. Worley, commissioner, Traffic Bureau, Ft. Smith, Arky; I. N. Early, manager, Traffic Counselor, Standard Oil Company of California, San Francisco.

The following officers were re-elected: Treasurer-Robert Maguire, manager, Traffic division, Atlantic Refining Company, Philadelphia; chairman, board of directors—Harold T. Reed, director of transportation, Line Material Industries, McGraw-Falson Company, Milwaukee; chairman, executive committee—E. W. Girton, general traffic manager, Wisson & Co., Chicago; vice-chairman, executive committee—E. W. Girton, general traffic manager, Wisson & Co., Chicago; vice-chairman, executive committee—E. M. Girton, Company, Pittsburgh; executive secretary—Lester J. Dorr, Woshington, D. C.; and assistant secretary—James E. Bartley, Washington.

The League's 1959 annual meeting will be held at the Palmer House, Chicago, November 12 and 13.

Supply Trade

Fronklin George, eastern manager of the General Railway Signal Company at New York, has been appointed assistant to vice president—sales at Rochester, N. Y. Carl V. Scully, assistant tant eastern manager, New York, has been



Carl V. Scully



assistant eastern manager.

Albert G. Maier



Arthur J. Dovle

December 8, 1958 RAILWAY AGE

Franklin George

You Ought To Know...

Running time is 70 hours on hot-shot freight runs from Chicago to West Coast points, starting Dec. 8. Generally, the new schedules provide Monday, Friday and Saturday night departures (also Thursday on the Rock Island) with third evening arrival and fourth morning delivery on the coast. Consists will be rail and forwarder merchandise and piggyback. Among the roads offering the 24-hour-schedule speedup (second 24-hour reduction this year) are Rock Island, Santa Fe, Burlington, Southern Pacific, Rio Grande, and Western Pacific.

Increased parcel post rates are now formally proposed by the postmaster general. He has asked the ICC to consent to raises averaging about 17 per cent and expected to yield \$88,800,000.

Union Pacific is seeking a rehearing on a Colorado Supreme Court decision which held that early settlers who bought land from the railroads also acquired mineral rights. UP said the ruling as it now stands would upset the stability on which the commercial development of Colorado was based (RA, Nov. 3, p. 7).

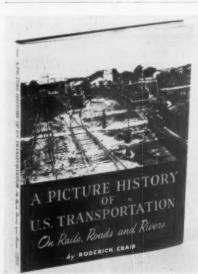
New general manager of the National Railways of Mexico is Benjamin Mendez. He was appointed by the new president of Mexico, Sr. Lopez Mateos. Sr. Mendez has been general manager of the Pacifico Railroad (formerly Southern Pacific of Mexico).

A \$2,956,180.30 refund on overpayment of income taxes for 1942 and 1943 has been received by Chicago & North Western (RA, Apr. 21, p. 7). The money will be included in "Available Net Income" for 1958, will be paid to holders of the company's Second Mortgage 4½ per cent convertible income bonds (interest accumulations on the bonds totaled 11.37 per cent as of last Dec. 31). Still pending: C&NW refund claims covering a number of years subsequent to 1943.

A new version of family fares for Christmas-season travel into St. Louis, Kansas City, Little Rock and Houston is being used by MoPac. Children (ages 5-12) can ride for 25 cents, round-trip, when accompanied by an adult. The price of a one-way ticket serves as round-trip fare for the adult. Special fares apply Saturdays and Sundays until Dec. 21. Originating points include Poplar Bluff and Jefferson City, Mo.; Mc-Gehee, Ark.; Bay City and Beaumont, Tex. Other roads, among them C&NW, have also set up special lowcost holiday fare plans.

Milwaukee Road's Flexi-Van service is expected to start between Chicago and the Twin Cities by Dec. 17. The road was to begin receiving its equipment from Strick last week. Later, Flexi-Van operations will be extended to Omaha and Kansas City.

Vermont fears that lack of business may drive railroads out of the state. "At the present rate of decline in passengers," says a Public Service Commission report, "it may very well be expected that the future will see no passenger trains operating in Vermont. And with increased trucking use, the railroad freight business decline may in time force the railroads in less thickly settled areas like Vermont to suspend operating entirely."



COMING OUT THIS WEEK is Railway Age Associate Editor Rod Craib's "Picture History of U.S. Transportation." With 228 photographs, the book details transportation development from the 1830's to the present. Copies are available at \$6.00 in book stores or direct from Simmons-Boardman Books, 30 Church St., New York 7, N.Y.

World's largest banana terminal has been officially opened in Baltimore. The new \$5,500,000 Locust Point Fruit Terminal was built by the Baltimore & Ohio primarily for servicing United Fruit Company's "Great White Fleet" of banana ships. To mark the event, B&O this month is serving banana shortcake and panfried bananas in its dining cars.

Southern Pacific's "Shasta Daylight"
(San Francisco-Portland) will be cut back to a thrice-weekly operation Jan. 15. Daily schedules will be run only during the Christmas holidays and the summer vacation season (May 28-Sept. 15). Off-season patronage of the train, SP says, no longer justifies daily operation.

A new type freight car of German construction is being tested by the Swedish State Railways. The 23-ton-capacity car, says a Swedish Railways spokesman, combines the advantages of a gondola with those of a box car. Its roof and sides may be pushed open to one-half of the car's total length.

"Responsible interest in politics . . . is not one which can be delegated to subordinates, nor bought off the counter," declared Lackawanna President P. M. Shoemaker in accepting the New York City West Side Award of that city's West Side Association of Commerce. "If business is to attain political stature, and respect, and accompanying power, it must contribute to government as well as receive its protection."

Philadelphia's Operation Northwest proved "highly promising" during its first month, says City Solicitor David Berger. The experimental program—which offers 30-cent train fares, frequent service, and bus-to-train transfers—has taken "hundreds of rushhour commuters and shoppers" off the highways, says Mr. Berger, and "the effect of the program in helping to ease center city traffic is beginning to appear."

The private enterprise economy will be replaced by a socialistic state "unless selfish demands upon the government are curbed by self-restraint," AWR President C. M. Roddewig warned last week. "Almost every time we turn around," he told a Nebraska audience, "the federal government has assumed additional regulation or control over some phase of our existence."



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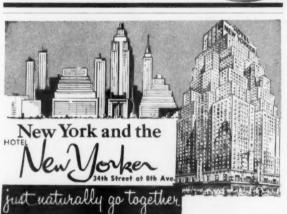
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ELECTRIC PASSENGER CAR INSPECTOR

To perform inspectional duties on all stages of construction of electric passenger cars to be built for the City of Philadelphia, assuring that construction methods and materials conform plans and specifications. Job to start in February, 1959 and to last for about eighteen months. Job site will probably be located in one of these cities: Philadelphia, Pa.; St. Louis, Mo.; Berwick, Pa.; Worchester, Mass. Experience as master mechanic or car shop superintendent and engineering knowledge desirable. Other experience considered, Send resume, character references, and weekly salary requirement to Mr. E. L. Tennyson, Transit Opera-tions Engineer, Room 1330 City Hall Annex, Philadelphia Penna.

POSITION OPEN

Man wanted to do sales promo-tion work in the New York and Philadelphia area for old estab-lished manufacturing firm in rail-way engineering and mechanical fields. Sales experience required, Box 872, RAILWAY AGE 30 Church Street, New York 7, N.Y.

POSITION WANTED

Graduate C. E. with Maintenance of Way background. Prefer lo-cation in Northwest or Midwest. Age 31. Box 873, RAILWAY AGE, 30 Church Street, New York 7, N. Y.

FOR SALE

TWO 1000 HP SWITCHER TYPE ALCO DIESEL-ELECTRIC LOCOMO-TIVES IN EXCELLENT CONDITION THE TOLEDO TERMINAL RAILROAD CO. 1214 Cherry Street Toledo 4, Ohio Cherry 1-9131

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What Rates for Competition?

Several Interstate Commerce Commissioners have been making speeches, revealing what (if any) changes in regulation the Transportation Act of 1958 may have called for.

Some of the commissioners seem to have developed an affection for "fully distributed costs" as a measure of whether proposed competitive rates harmonize with national transportation policy or not.

This doctrine, if it should predominate, would mean real trouble for the railroads.

Of course, coverage of all costs of doing business (and then some), as a target to aim at, is acceptable and necessary for railroads or any other business. But the lack of assurance that such costs will be covered *immediately* by proposed rate changes on every item of specific traffic is an entirely different matter.

There are three kinds of so-called "costs" that have to be considered in this situation, viz. (1) "out-of-pocket," (2) "overhead" and (3) "fully distributed." Out-of-pocket costs are the extra costs incurred on account of a particular shipment, and which would be avoided if the traffic did not move. Overhead costs are the constant costs (supervision, clerical expense, etc.) which do not vary with traffic volume. Fully distributed costs are the sum of the out-of-pocket and overhead costs (the latter being allocated to particular traffic by some arbitrary formula).

Earning all costs (and then some) is a goal for the operation of the enterprise, as a whole and for the long pull. As far as the rates on a particular commodity are concerned, they will make their greatest possible contribution to the earning of "fully distributed costs" of the whole

enterprise in the long run if: (1) they fully cover out-of-pocket costs, and (2) earn as much above out-of-pocket costs (i.e., "contribution to over-head") as they can be made to earn. It isn't a question of maximizing the "contribution" earned by each unit of the commodity handled, but rather getting the total "contribution" of all units as large as possible.

If handling a given unit of traffic costs out-of-pocket \$1 and a rate of \$1.50 attracts a million of these units, this rate gives the railroad a "contribution" to overhead costs and profit of \$500,000. But a rate of \$1.25 might attract 4 million units—with a total "contribution" of \$1,000,000. The railroad which increases its traffic volume and total "contribution" in this manner is quite likely to earn "fully distributed costs" on its entire operation. It is more likely to do so than if it insists right at the beginning on collecting "fully distributed costs" on each and every item of its traffic.

It might well be that the \$1.50 rate would cover fully distributed costs, at the beginning, but would induce traffic diversion to competition. Since "overhead costs" (those above "out-of-pocket") are invariable, by definition, then, if traffic should decline, the "overhead cost" per unit of traffic remaining would rise. So, a rate based on a "fully distributed cost" of \$1.50 might drive away enough traffic so that the "fully distributed cost" would rise to \$1.55. Up would go the rate again (if the "fully distributed cost" doctrine were followed)—and traffic would decline still further. Once more, rates based on "fully distributed costs" would have to be raised. And so on until all the traffic would be driven

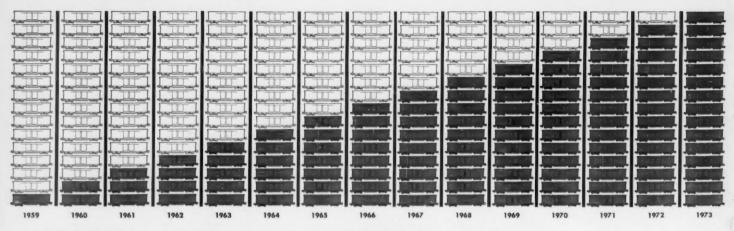
There are mighty few businesses that experiment with new prices which expect to "get their bait back" the very first day they put their new prices into effect. Progress comes only from taking reasonable risks, and if railroads can't hazard anything in making business-building rates, then they're going to have a tough time competing.

LET'S HAVE A THOROUGH DISCUSSION: The issue will have to be thoroughly debated—either before the commission, or the courts, or committees of Congress. The more railroad men inform themselves about the subject, the more likely they will be to secure the ultimate adoption of sound policies.

Sason's Greetings...

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HERE'S A PLAN that will save railroads \$288,000,000 a year!*

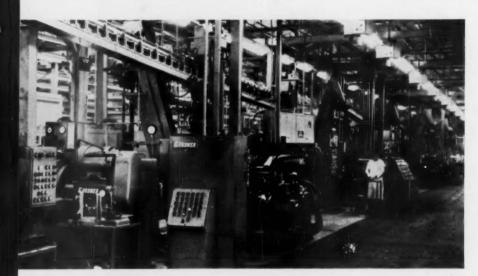
The railroads will save \$288,000,000 a year in maintenance and operating costs when all freight cars are equipped with roller bearings-the bearings all railroaders want sooner or later. Here's a plan to start your roller bearing program-and savings-now!

Each railroad could put a certain percentage of its freight cars on roller bearings every month or every year. With all the railroads participating on a regular basis, the cost of putting roller bearings on freight cars would be held down. What's more you would be able to set up economical shop schedules to further reduce the cost of going "Roller Freight". And by putting these "Roller Freight" cars in interchange, all the railroads would get their share of the benefits. Benefits like these:

One railroad's Timken-bearing-equipped freight cars rolled over 300,000,000 car miles with only one overheated bearing. On another line, Timken-bearing-equipped cars recently rolled 216,000 miles each without adding lubricant. That's how Timken® bearings give you a 241/2% return on the investment-why 69 railroads and other car owners have already put over 26,000 freight cars on Timken bearings.

Talk over this plan with your other railroad friends. The best time to start your "Roller Freight" modernization and new car program is right now.

*Based on 1958 labor and material costs. At anticipated 1973 costs, 15 years from now, savings would rise to an estimated \$610,000,000.



TIMKEN BEARING COSTS HAVE STAYED DOWN WHILE OTHER RAILROAD COSTS HAVE SKYROCKETED (INDEX 1947 = 100)



HERE'S THE PLANT that can help you do it starting right now!

The picture above shows our amazing new roller bearing production line at Columbus, Ohio. It mass-produces Timken roller bearings for freight cars only. Using missile-age techniques embodied in ultra-modern machines, it can turn out 20,000 car sets a year!

By planning your roller bearing purchases on a monthly or yearly basis, you can keep the machines in this plant going full-tilt. Holding down bearing costs will be the automatic result of planned purchasing. Even now the cost of Timken roller bearings has come down and down -while the cost of friction bearings and other things a railroad uses has gone steadily up (see chart at right). Today the extra cost of equipping a freight car with Timken bearings is just about half what it was 10 years ago. And our new plant is capable of narrowing the price gap still further between friction bearings and Timken bearings-if you help us keep the plant busy. The Timken Roller Bearing Company, Canton 6, Ohio. Cable address: "TIMROSCO".

"Roller Freight" is the next great step in railroading

TAPERED ROLLER BEARINGS